CDX-F5500/F5505X

SERVICE MANUAL

Ver 1.0 2004. 01

US Model
Canadian Model
CDX-F5505X
AEP Model
UK Model
E Model
CDX-F5500

Photo: AEP, UK model

• The tuner and CD sections have no adjustments.

AUDIO POWER SPECIFICATIONS (US Model)
POWER OUTPUT AND TOTAL HARMONIC DISTORTION
23.2 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 5% total harmonic distortion.

Model Name Using Similar Mechanism	NEW
CD Drive Mechanism Type	MG-611MA-186//Q
Optical Pick-up Name	KSS1000E

SPECIFICATIONS

CD player section

Signal-to-noise ratio	120 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit

Tuner section

FM

Tuning range	US, Canadian Model: 87.5 – 107.9 MHz AEP, UK Model: 87.5 – 108.0 MHz E Model: FM tuning interval: 50 kHz/200 kHz switchable 87.5 – 108.0 MHz (at 50 kHz step) 87.5 – 107.9 MHz (at 200 kHz step)
Antenna/aerial terminal	External antenna/aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Usable sensitivity	9 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	67 dB (stereo), 69 dB (mono)
Harmonic distortion at 1 kHz	0.5% (stereo), 0.3% (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

MW/LW (AEP, UK Model)

Tuning range	MW: 531 – 1,602 kHz LW: 153 – 279 kHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	MW: 30 µV LW: 40 µV

AM (US, Canadian, E Model)

Tuning range	US, Canadian Model: 530 – 1,710 kHz E Model: AM tuning interval: 9 kHz/10 kHz switchable 531 – 1,602 kHz (at 9 kHz step) 530 – 1,710 kHz (at 10 kHz step)
Antenna/aerial terminal	External antenna/aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	AM: 30 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	50 W × 4 (at 4 ohms) (AEP, UK Model) 52 W × 4 (at 4 ohms) (US, Canadian, E Model)

– Continued on next page –

FM/AM COMPACT DISC PLAYER
US, Canadian, E Model

FM/MW/LW COMPACT DISC PLAYER
AEP, UK Model

9-877-507-01
2004A04-1
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Sony Corporation
e Vehicle Company
Published by Sony Engineering Corporation

SONY®

General

Outputs	Audio outputs terminal (front, rear/sub switchable) Power antenna/aerial relay control terminal Power amplifier control terminal
Inputs	Telephone ATT control terminal Remote controller input terminal BUS control input terminal BUS audio input terminal Antenna/aerial input terminal
Tone controls	Low: ±10 dB at 60 Hz (XPLOD) Mid: ±10 dB at 1 kHz (XPLOD) High: ±10 dB at 10 kHz (XPLOD)
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 178 × 50 × 181 mm (7 1/8 × 2 × 7 1/4 in) (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 161 mm (7 1/4 × 2 1/8 × 6 3/8 in) (w/h/d)
Mass	Approx. 1.2 kg
Supplied accessories	Card remote commander RM-X115 Parts for installation and connections (1 set) Front panel case (1)

Design and specifications are subject to change without notice.

SERVICE NOTES

• AEP, UK, E model

CLASS 1
LASER PRODUCT

This label is located on the bottom of the chassis.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

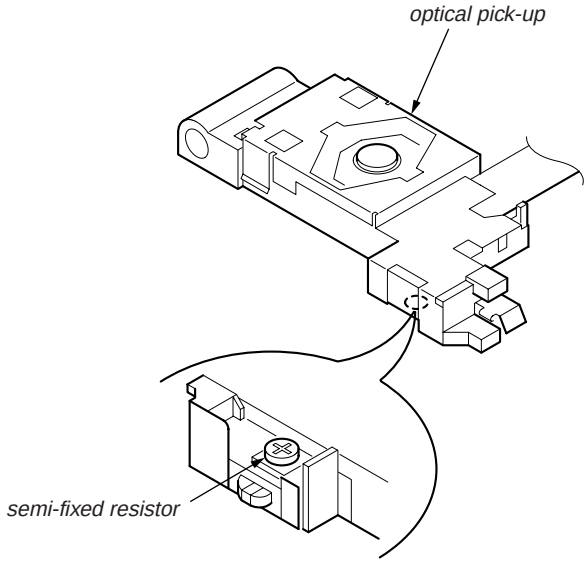
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

• US, Canadian model

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

If the optical pick-up block is defective, please replace the whole optical pick-up block.
Never turn the semi-fixed resistor located at the side of optical pick-up block.



TEST DISCS

This set can playback CD-R and CD-ROM discs. The following test discs should be used to check the capability:

CD-R test disc TCD-R082LMT (Part No. J-2502-063-1)
CD-RW test disc TCD-W082L (Part No. J-2502-063-2)

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

Notes on CD-Rs (recordable CDs)/CD-RWs (rewritable CDs)

This unit can play the following discs:

Type of discs	Label on the disc
Audio CD	COMPACT disc DIGITAL AUDIO Recordable COMPACT disc DIGITAL AUDIO ReWritable
MP3 files	COMPACT disc DIGITAL AUDIO Recordable COMPACT disc DIGITAL AUDIO ReWritable COMPACT disc Recordable COMPACT disc ReWritable

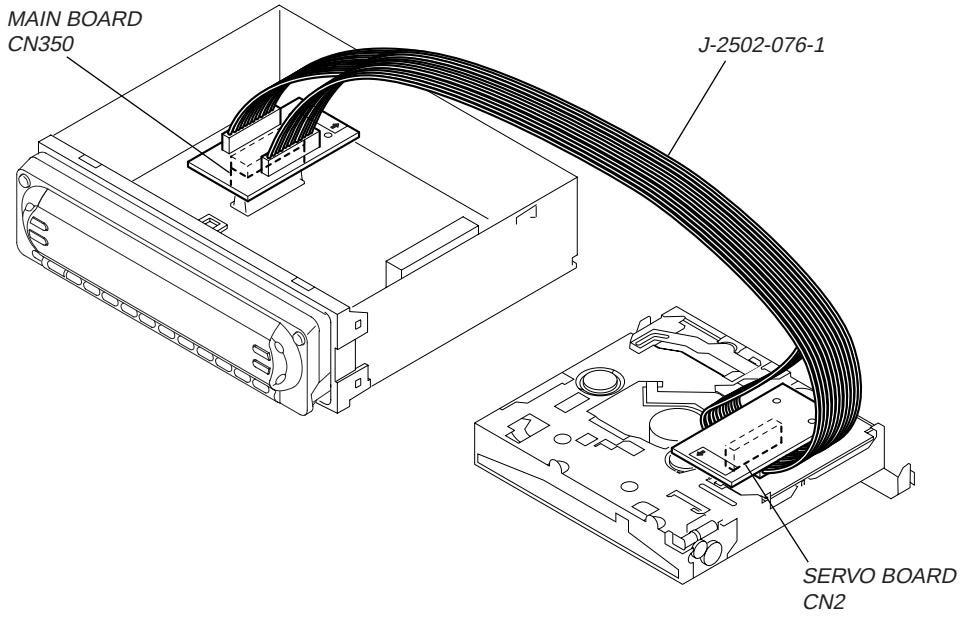
- Some CD-Rs/CD-RWs (depending on the equipment used for its recording or the condition of the disc) may not play on this unit.
- You cannot play a CD-R/CD-RW that is not finalized*.
- You can play MP3 files recorded on CD-ROMs, CD-Rs, and CD-RWs.
- A CD-R/CD-RW to which a session can be added can be played.

* A process necessary for a recorded CD-R/CD-RW disc to be played on the audio CD player.

EXTENSION CABLE AND SERVICE POSITION

When repairing or servicing this set, connect the jig (extension cable) as shown below.

- Connect the MAIN board (CN350) and the SERVO board (CN2) with the extension cable (Part No. J-2502-076-1).



● UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350°C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

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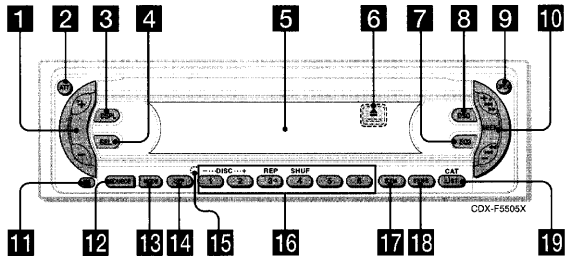
SECTION 1
GENERAL

This section is extracted from instruction manual.

Location of controls (US, Canadian model)

Refer to the pages listed for details.



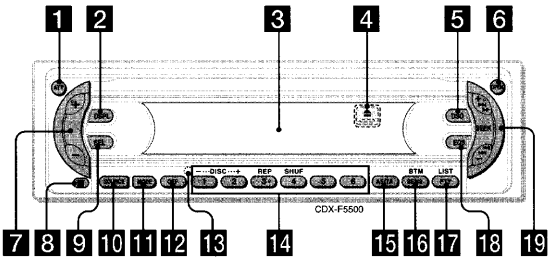
1 **Volume +/– button**
2 **ATT (attenuate) button** 20
3 **DSPL (display mode change) button** 10, 12, 14, 17
4 **SEL (select) button**
To select items.
5 **Display window**
6 **⏏ (eject) button** (located on the front side of the unit, behind the front panel) 11
7 **EQ3 button** 21
8 **DSO button** 22
9 **OPEN button** 9, 11
10 **SEEK +/– button**
Radio:
To tune in stations automatically/find a station manually.
CD (MP3 files)/MD:
To skip tracks/fast-forward, reverse a track.
11 **Receptor for the card remote commander**
12 **SOURCE (Power on/Radio/CD/MD) button**
To select the source.
13 **MODE button**
To change operation.
14 **OFF (Stop/Power off) button***1 9, 11
15 **RESET button** (located on the front side of the unit, behind the front panel) 9
16 **Number buttons** 21
Radio:
To store the desired station on each number button.
CD (MP3 files)/MD:
①: **DISC (ALBUM) –** 11
②: **DISC (ALBUM) +** 11
③: **REP** 13
④: **SHUF** 13
17 **BTM button** 15
18 **SENS button** 16
19 **LIST/CAT*2 button** 14, 17

*1 **Warning when installing in a car without an ACC (accessory) position on the ignition switch**
After turning off the ignition, be sure to press and hold (OFF) on the unit until the display disappears.
Otherwise, the display does not turn off and this causes battery drain

*2 *The CAT button is available only when the XM tuner is connected.*

Location of controls (AEP, UK model)

Refer to the pages listed for details.

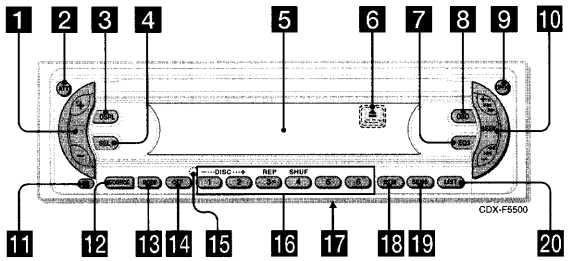


1 **ATT (attenuate) button** 22
2 **DSPL (display mode change) button** 10, 12, 14, 17
3 **Display window**
4 **⏏ (eject) button** (located on the front side of the unit, behind the front panel) 11
5 **DSO button** 24
6 **OPEN button** 9, 11
7 **Volume +/– button**
8 **Receptor for the card remote commander**
9 **SEL (select) button**
To select items.
10 **SOURCE (Power on/Radio/CD/MD) button**
To select the source.
11 **MODE button**
To change the operation.
12 **OFF (Stop/Power off) button*** 9, 11
13 **RESET button** (located on the front side of the unit, behind the front panel) 9
14 **Number buttons** 23
Radio:
To store the desired station on each number button.
CD (MP3 files)/MD:
①: **DISC (ALBUM) –** 11
②: **DISC (ALBUM) +** 11
③: **REP** 13
④: **SHUF** 13
15 **AF/TA button** 17, 18, 19
16 **SENS/BTM button** 15, 16, 19
17 **PTY (programme type)/LIST button** 14, 15, 20
18 **EQ3 button** 24
19 **SEEK +/– button**
Radio:
To tune in stations automatically/find a station manually.
CD (MP3 files)/MD:
To skip tracks/fast-forward, reverse a track.

* **Warning when installing in a car without an ACC (accessory) position on the ignition switch**
After turning off the ignition, be sure to press and hold (OFF) on the unit until the display disappears.
Otherwise, the display does not turn off and this causes battery drain.

Location of controls (E model)

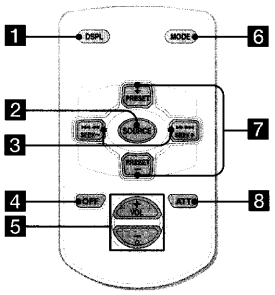
Refer to the pages listed for details.



1 **Volume +/– button**
2 **ATT (attenuate) button** 19
3 **DSPL (display mode change) button** 10, 12, 14, 17
4 **SEL (select) button**
To select items.
5 **Display window**
6 **⏏ (eject) button** (located on the front side of the unit, behind the front panel) 11
7 **EQ3 button** 21
8 **DSO button** 22
9 **OPEN button** 9, 11
10 **SEEK +/– button**
Radio:
To tune in stations automatically/find a station manually.
CD (MP3 files)/MD:
To skip tracks/fast-forward, reverse a track.
11 **Receptor for the card remote commander**
12 **SOURCE (Power on/Radio/CD/MD) button**
To select the source.
13 **MODE button**
To change operation.
14 **OFF (Stop/Power off) button*** 9, 11
15 **RESET button** (located on the front side of the unit, behind the front panel) 9
16 **Number buttons** 20
Radio:
To store the desired station on each number button.
CD (MP3 files)/MD:
①: **DISC (ALBUM) –** 11
②: **DISC (ALBUM) +** 11
③: **REP** 12
④: **SHUF** 13
17 **Frequency select switch** (located on the bottom of the unit)
See "Frequency select switch" in the Installation/Connections manual.
18 **BTM button** 15
19 **SENS button** 15, 16
20 **LIST button** 13, 14, 16, 17

* **Warning when installing in a car without an ACC (accessory) position on the ignition switch**
After turning off the ignition, be sure to press and hold (OFF) on the unit until the display disappears.
Otherwise, the display does not turn off and this causes battery drain.

Card remote commander RM-X115



The corresponding buttons of the card remote commander control the same functions as those on this unit.

1 **DSPL button**
2 **SOURCE button**
3 **SEEK (–/+) buttons**
4 **OFF button**
5 **VOL (+/–) buttons**
6 **MODE button**
7 **PRESET (DISC/ALBUM) (+/–) buttons**
8 **ATT button**

Note
If the display disappears by pressing (OFF), it cannot be operated with the card remote commander unless (SOURCE) on the unit is pressed, or a disc is inserted to activate the unit first.

Tip
For details on how to replace the battery, see "Replacing the lithium battery" on page 24.

Selecting a disc and album with the card remote commander

Disc and album can be skipped using the PRESET (DISC/ALBUM) (+/–) buttons on the card remote commander.

(With this unit)

To	Press
Skip albums* – Album selection	+ or – [once for each album] To continuously skip albums, press and hold either button.

(With optional unit)

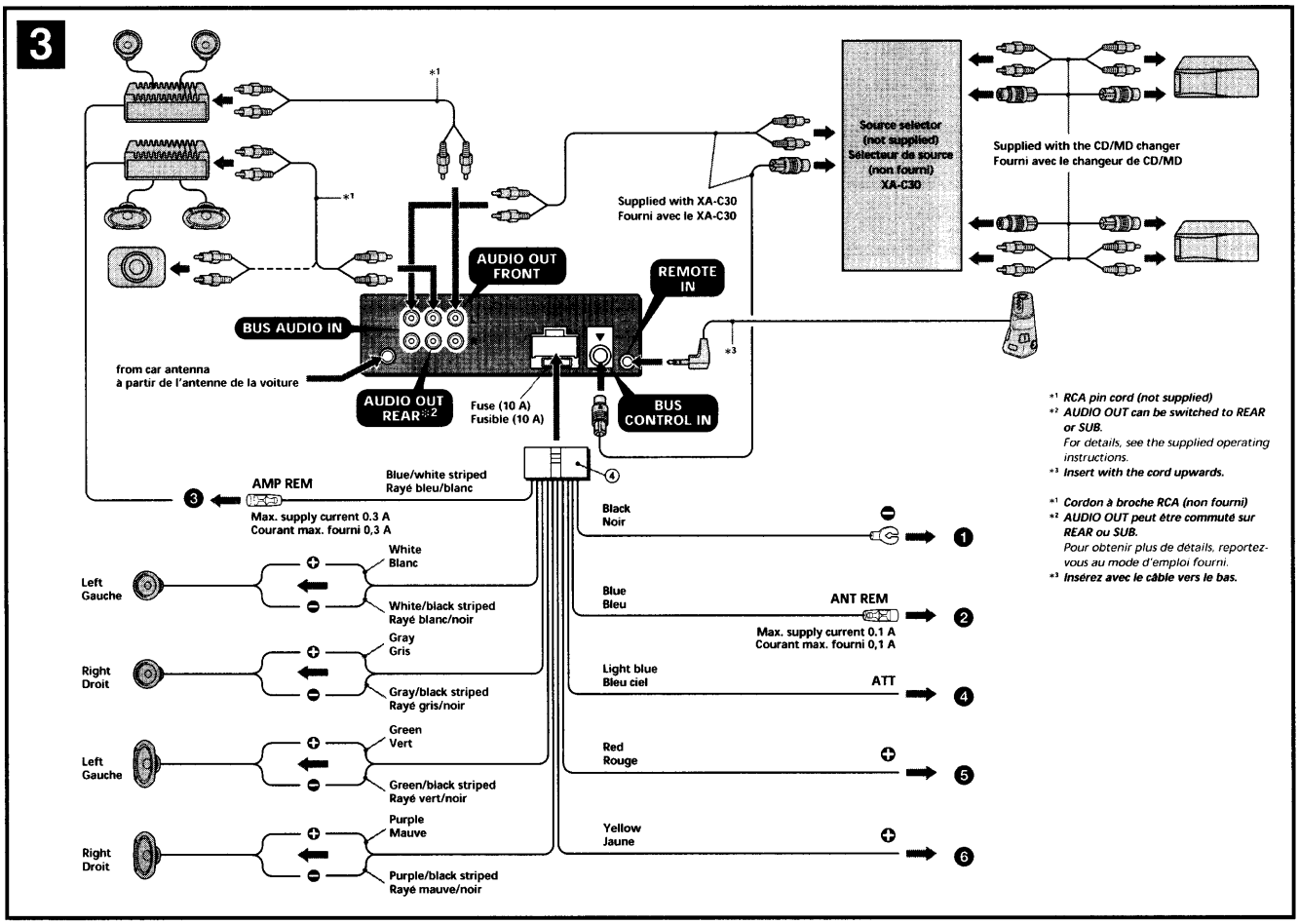
To	Press
Skip discs – Disc selection	+ or – [once for each disc] To continuously skip discs, press once and press again within 2 seconds (and hold) either button.
Skip albums* – Album selection	+ or – [hold for a moment] and release To continuously skip albums, press (and hold) within 2 seconds of first releasing the button.

** Available only when an MP3 file is played.*

Skipping tracks continuously

Press once (SEEK) (+) or (SEEK) (–) on the card remote commander, then press again within 2 seconds and hold.

Connections (US, Canadian model)



Connection diagram (3)

1 To a metal surface of the car
First connect the black ground lead, then connect the yellow and red power input leads.

2 To the power antenna control lead or power supply lead of antenna booster amplifier

Notes
- *It is not necessary to connect this lead if there is no power antenna or antenna booster, or with a manually-operated telescopic antenna.*
- *When your car has a built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads."*

3 To AMP REMOTE IN of an optional power amplifier
This connection is only for amplifiers. Connecting any other system may damage the unit.

4 To the interface cable of a car telephone

5 To the +12 V power terminal which is energized in the accessory position of the ignition key switch

Notes
- *If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times.*
  Be sure to connect the black ground lead to a metal surface of the car first.
- *When your car has a built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads."*

6 To the +12 V power terminal which is energized at all times
Be sure to connect the black ground lead to a metal surface of the car first.

Notes on the control and power supply leads
- *The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner.*
- *When your car has built-in FM/AM antenna in the rear/side glass, connect the power antenna control lead (blue) or the accessory power input lead (red) to the power terminal of the existing antenna booster. For details, consult your dealer.*
- *A power antenna without relay box cannot be used with this unit.*

Memory hold connection
When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.

Notes on speaker connection
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the ground lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker leads to each other.*

Note on connection
If speaker and amplifier are not connected correctly, "FAILURE" appears in the display. In this case, make sure the speaker and amplifier are connected correctly.

Schéma de raccordement (3)

1 À un point métallique de la voiture
Branchez d'abord le fil de masse noir et, ensuite, les fils d'entrée d'alimentation jaune et rouge.

2 Vers le fil de commande de l'antenne électrique ou le fil d'alimentation de l'amplificateur d'antenne

Remarques
- *Il n'est pas nécessaire de raccorder ce fil s'il n'y a pas d'antenne électrique ni d'amplificateur d'antenne, ou avec une antenne télescopique manuelle.*
- *Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir « Remarques sur les fils de commande et d'alimentation ».*

3 Au niveau du AMP REMOTE IN de l'amplificateur de puissance en option
Ce raccordement s'applique uniquement aux amplificateurs. Le branchement de tout autre système risque d'endommager l'appareil.

4 Vers le cordon de liaison d'un téléphone de voiture

5 À la borne +12 V qui est alimentée quand la clé de contact est sur la position accessoires

Remarques
- *S'il n'y a pas de position accessoires, raccordez la borne d'alimentation (batterie) +12 V qui est alimentée en permanence.*
  Raccordez d'abord le fil de masse noir à un point métallique du véhicule.
- *Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir « Remarques sur les fils de commande et d'alimentation ».*

6 À la borne +12 V qui est alimentée en permanence
Raccordez d'abord le fil de masse noir à un point métallique du véhicule.

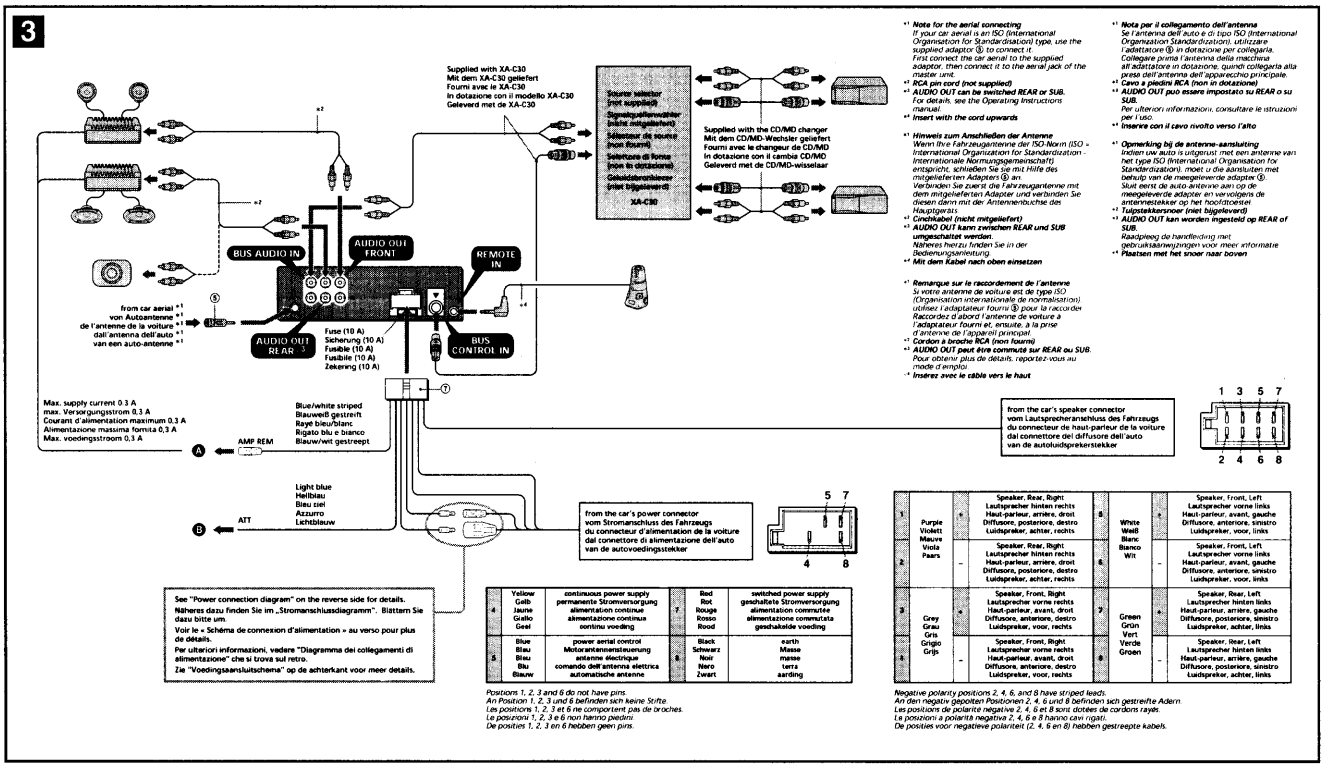
Remarques sur les fils de commande et d'alimentation
- *Le fil de commande de l'antenne électrique (bleu) fournit une alimentation de + 12 V CC lorsque vous mettez la radio sous tension.*
- *Lorsque votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, raccordez le fil de commande de l'antenne (bleu) ou l'entrée d'alimentation des accessoires (rouge) à la borne d'alimentation de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre détaillant.*
- *Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.*

Raccordement pour la conservation de la mémoire
Lorsque le fil d'entrée d'alimentation jaune est raccordé, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.

Remarques sur le raccordement des haut-parleurs
- *Avant de raccorder les haut-parleurs, mettez l'appareil hors tension.*
- *Utilisez des haut-parleurs ayant une impédance de 4 à 8 ohms avec une capacité électrique adéquate pour éviter de les endommager.*
- *Ne raccordez pas les bornes du système de haut-parleurs au châssis de la voiture et ne raccordez pas les bornes des haut-parleurs droit à celles du haut-parleur gauche.*
- *Ne raccordez pas le câble de masse de cet appareil à la borne négative (–) de l'enceinte.*
- *N'essayez pas de raccorder les haut-parleurs en parallèle.*
- *Raccordez uniquement des haut-parleurs passifs. Le raccordement de haut-parleurs actifs (avec amplificateurs intégrés) aux bornes des haut-parleurs peut endommager l'appareil.*
- *Pour éviter tout dysfonctionnement, n'utilisez pas les fils des haut-parleurs intégrés installés dans votre voiture si l'appareil partage un fil négatif commun (–) pour les haut-parleurs droit et gauche.*
- *Ne raccordez pas entre eux les cordons des haut-parleurs de l'appareil.*

Remarque sur le raccordement
Si les haut-parleurs et l'amplificateur ne sont pas raccordés correctement, le message « FAILURE » s'affiche. Dans ce cas, assurez-vous que les haut-parleurs et l'amplificateur sont bien raccordés.

Connections (AEP, UK model)


3
Supplied with XA-C30
Mit dem XA-C30 geliefert
Fourni avec le XA-C30
In dotazione con il modello XA-C30
Geleverd met de XA-C30
Source selector (not supplied)
Signalumschalter (nicht mitgeliefert)
Sélecteur de source (non fourni)
Selettore di fonte (non in dotazione)
Geluidsbronkiezer (niet bijgeleverd)
XA-C30
Supplied with the CD/MD changer
Mit dem CD/MD-Wechsler geliefert
Fourni avec le changeur de CD/MD
In dotazione con il cambia CD/MD
Geleverd met de CD/MD-wisselaar
BUS AUDIO IN
AUDIO OUT FRONT
REMOTE IN
AUDIO OUT REAR
BUS CONTROL IN
from car aerial
von Autoantenne
de l'antenne de la voiture
dall'antenna dell'auto
van een auto-antenne
Fuse (10 A)
Sicherung (10 A)
Fusible (10 A)
Fusibile (10 A)
Zekering (10 A)
Max. supply current 0.3 A
max. Versorgungsstrom 0,3 A
Courant d'alimentation maximum 0,3 A
Alimentazione massima fornita 0,3 A
Max. voedingsstroom 0,3 A
AMP REM
Blue/white striped
Blauweiß gestreift
Rayé bleu/blanc
Rigato blu e bianco
Blauw/wit gestreept
ATT
Light blue
Hellblau
Bleu ciel
Azzurro
Lichtblauw
from the car's power connector
vom Stromanschluss des Fahrzeugs
du connecteur d'alimentation de la voiture
dal connettore di alimentazione dell'auto
van de autovoedingsstekker
from the car's speaker connector
vom Lautsprecheranschluss des Fahrzeugs
du connecteur de haut-parleur de la voiture
dal connettore del diffusore dell'auto
van de autoluidsprekerstekker
1 3 5 7
2 4 6 8
See "Power connection diagram" on the reverse side for details.
Näheres dazu finden Sie im „Stromanschlussdiagramm". Blättern Sie dazu bitte um.
Voir le « Schéma de connexion d'alimentation » au verso pour plus de détails.
Per ulteriori informazioni, vedere "Diagramma dei collegamenti di alimentazione" che si trova sul retro.
Zie "Voedingsaansluitschema" op de achterkant voor meer details.
4 Yellow Gelb Jaune Giallo Geel — continuous power supply permanente Stromversorgung alimentation continue alimentazione continua continu voeding
7 Red Rot Rouge Rosso Rood — switched power supply geschaltete Stromversorgung alimentation commutée alimentazione commutata geschakelde voeding
5 Blue Blau Bleu Blu Blauw — power aerial control Motorantennensteuerung antenne électrique comando dell'antenna elettrica automatische antenne
8 Black Schwarz Noir Nero Zwart — earth Masse masse terra aarding
1 Purple Violett Mauve Viola Paars + Speaker, Rear, Right Lautsprecher hinten rechts Haut-parleur, arrière, droit Diffusore, posteriore, destro Luidspreker, achter, rechts
1 Purple Violett Mauve Viola Paars − Speaker, Rear, Right Lautsprecher hinten rechts Haut-parleur, arrière, droit Diffusore, posteriore, destro Luidspreker, achter, rechts
2 Viola Paars + Speaker, Rear, Right Lautsprecher hinten rechts Haut-parleur, arrière, droit Diffusore, posteriore, destro Luidspreker, achter, rechts
2 Viola Paars − Speaker, Rear, Left Lautsprecher hinten links Haut-parleur, arrière, gauche Diffusore, posteriore, sinistro Luidspreker, achter, links
3 Grey Grau Gris Grigio Grijs + Speaker, Front, Right Lautsprecher vorne rechts Haut-parleur, avant, droit Diffusore, anteriore, destro Luidspreker, voor, rechts
3 Grey Grau Gris Grigio Grijs − Speaker, Front, Right Lautsprecher vorne rechts Haut-parleur, avant, droit Diffusore, anteriore, destro Luidspreker, voor, rechts
6 White Weiß Blanc Bianco Wit + Speaker, Front, Left Lautsprecher vorne links Haut-parleur, avant, gauche Diffusore, anteriore, sinistro Luidspreker, voor, links
6 White Weiß Blanc Bianco Wit − Speaker, Front, Left Lautsprecher vorne links Haut-parleur, avant, gauche Diffusore, anteriore, sinistro Luidspreker, voor, links
7 Green Grün Vert Verde Groen + Speaker, Rear, Left Lautsprecher hinten links Haut-parleur, arrière, gauche Diffusore, posteriore, sinistro Luidspreker, achter, links
7 Green Grün Vert Verde Groen − Speaker, Rear, Left Lautsprecher hinten links Haut-parleur, arrière, gauche Diffusore, posteriore, sinistro Luidspreker, achter, links
4 5 7
4 8

*1 **Note for the aerial connecting**
If your car aerial is an ISO (International Organisation for Standardisation) type, use the supplied adaptor Ⓢ to connect it. First connect the car aerial to the supplied adaptor, then connect it to the aerial jack of the master unit.
*2 **RCA pin cord (not supplied)***
*3 **AUDIO OUT can be switched REAR or SUB.***
For details, see the Operating Instructions manual.
*4 **Insert with the cord upwards***

*1 **Hinweis zum Anschließen der Antenne***
Wenn Ihre Fahrzeugantenne der ISO-Norm (ISO = International Organization for Standardization - Internationale Normungsgemeinschaft) entspricht, schließen Sie sie mit Hilfe des mitgelieferten Adapters Ⓢ an. Verbinden Sie zuerst die Fahrzeugantenne mit dem mitgelieferten Adapter und verbinden Sie diesen dann mit der Antennenbuchse des Hauptgeräts.
*2 **Cinchkabel (nicht mitgeliefert)***
*3 **AUDIO OUT kann zwischen REAR und SUB umgeschaltet werden.***
Näheres hierzu finden Sie in der Bedienungsanleitung.
*4 **Mit dem Kabel nach oben einsetzen***

*1 **Remarque sur le raccordement de l'antenne***
Si votre antenne de voiture est de type ISO (Organisation internationale de normalisation), utilisez l'adaptateur fourni Ⓢ pour le raccorder. Raccordez d'abord l'antenne de voiture à l'adaptateur fourni et, ensuite, à la prise d'antenne de l'appareil principal.
*2 **Cordon à broche RCA (non fourni)***
*3 **AUDIO OUT peut être commuté sur REAR ou SUB.***
Pour obtenir plus de détails, reportez-vous au mode d'emploi.
*4 **Insérez avec le câble vers le haut***

*1 **Nota per il collegamento dell'antenna***
Se l'antenna dell'auto è di tipo ISO (International Organisation Standardisation), utilizzare l'adattatore Ⓢ in dotazione per collegarla. Collegare prima l'antenna della macchina all'adattatore in dotazione, quindi collegarla alla presa dell'antenna dell'apparecchio principale.
*2 **Cavo a piedini RCA (non in dotazione)***
*3 **AUDIO OUT può essere impostato su REAR o su SUB.***
Per ulteriori informazioni, consultare le istruzioni per l'uso.
*4 **Inserire con il cavo rivolto verso l'alto***

*1 **Opmerking bij de antenne-aansluiting***
Indien uw auto is uitgerust met een antenne van het type ISO (International Organisation for Standardization), moet u die aansluiten met behulp van de meegeleverde adapter Ⓢ. Sluit eerst de auto-antenne aan op de meegeleverde adapter en vervolgens de antennestekker op het hoofdtoestel.
*2 **Tulpstekersnoer (niet bijgeleverd)***
*3 **AUDIO OUT kan worden ingesteld op REAR of SUB.***
Raadpleeg de handleiding met gebruiksaanwijzingen voor meer informatie
*4 **Plaatsen met het snoer naar boven***

Connection diagram (3)

Ⓐ **To AMP REMOTE IN of an optional power amplifier**
This connection is only for amplifiers. Connecting any other system may damage the unit.
Ⓑ **To the interface cable of a car telephone**

Warning
If you have a power aerial without a relay box, connecting this unit with the supplied power connecting lead ⑦ may damage the aerial.

Notes on the control leads
- *The power aerial control lead (blue) supplies +12 V DC when you turn on the tuner, or when you activate the AF (Alternative Frequency) or TA (Traffic Announcement) function.*
- *When your car has built-in FM/MW/LW aerial in the rear/side glass, connect the power aerial control lead (blue) or the accessory power input lead (red) to the power terminal of the existing aerial booster. For details, consult your dealer.*
- *A power aerial without a relay box cannot be used with this unit.*

Memory hold connection
When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the earth lead of this unit to the negative (-) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (-) lead for the right and left speakers.*
- *Do not connect the unit's speaker leads to each other.*

Note on connection
If speaker and amplifier are not connected correctly, "FAILURE" appears in the display. In this case, make sure the speaker and amplifier are connected correctly.

Anschlussdiagramm (3)

Ⓐ **An AMP REMOTE IN des gesondert erhältlichen Endverstärkers**
Dieser Anschluss ist ausschließlich für Verstärker gedacht. Schließen Sie nichts anderes daran an. Andernfalls kann das Gerät beschädigt werden.
Ⓑ **An Schnittstellenkabel eines Autotelefons**

Warnung
Wenn Sie eine Motorantenne ohne Relaiskästchen verwenden, kann durch Anschließen dieses Geräts mit dem mitgelieferten Stromversorgungskabel ⑦ die Antenne beschädigt werden.

Hinweise zu den Steuerleitungen
- *Die Motorantennen-Steuerleitung (blau) liefert + 12 V Gleichstrom, wenn Sie den Tuner einschalten oder die AF- (Alternativfrequenzsuche) oder die TA-Funktion (Verkehrsdurchsagen) aktivieren.*
- *Wenn das Fahrzeug mit einer in der Heck-/Seitenfensterscheibe integrierten FM (UKW)/MW/LW-Antenne ausgestattet ist, schließen Sie die Motorantennen-Steuerleitung (blau) oder die Zubehörstromversorgungsleitung (rot) an den Stromversorgungsanschluss des vorhandenen Antennenverstärkers an. Näheres dazu erfahren Sie bei Ihrem Händler.*
- *Es kann nur eine Motorantenne mit Relaiskästchen angeschlossen werden.*

Stromversorgung des Speichers
Wenn die gelbe Stromversorgungsleitung angeschlossen ist, wird der Speicher stets (auch bei ausgeschalteter Zündung) mit Strom versorgt.

Hinweise zum Lautsprecheranschluss
- *Schalten Sie das Gerät aus, bevor Sie die Lautsprecher anschließen.*
- *Verwenden Sie Lautsprecher mit einer Impedanz zwischen 4 und 8 Ohm und ausreichender Belastbarkeit. Ansonsten können die Lautsprecher beschädigt werden.*
- *Verbinden Sie die Lautsprecheranschlüsse nicht mit dem Wagenchassis und verbinden Sie auch nicht die Anschlüsse des rechten mit denen des linken Lautsprechers.*
- *Verbinden Sie die Masseleitung dieses Geräts nicht mit dem negativen (–) Lautsprecheranschluss.*
- *Versuchen Sie nicht, Lautsprecher parallel anzuschließen.*
- *An die Lautsprecheranschlüsse dieses Geräts dürfen nur Passivlautsprecher angeschlossen werden. Schließen Sie keine Aktivlautsprecher (Lautsprecher mit eingebauten Verstärkern) an, da das Gerät sonst beschädigt werden könnte.*
- *Um Fehlfunktionen zu vermeiden, verwenden Sie nicht die im Fahrzeug installierten, integrierten Lautsprecherleitungen, wenn am Ende eine gemeinsame negative (–) Leitung für den rechten und den linken Lautsprecher verwendet wird.*
- *Verbinden Sie nicht die Lautsprecherkabel des Geräts miteinander.*

Hinweis zum Anschließen
Wenn Lautsprecher und Verstärker nicht richtig angeschlossen sind, erscheint „FAILURE" im Display. Vergewissern Sie sich in diesem Fall, dass Lautsprecher und Verstärker richtig angeschlossen sind.

Schémas de connexion (3)

Ⓐ **Au niveau du AMP REMOTE IN d'un amplificateur de puissance facultatif**
Ce raccordement existe seulement pour les amplificateurs. Le raccordement à tout autre système peut endommager l'appareil.
Ⓑ **Vers le cordon de liaison d'un téléphone de voiture**

Avertissement
Si vous disposez d'une antenne électrique sans boîtier de relais, le branchement de cet appareil au moyen du cordon d'alimentation fourni ⑦ risque d'endommager l'antenne.

Remarques sur les fils de commande
- *Le fil de commande (bleu) fournit du courant continu de +12 V lorsque vous mettez le tuner sous tension ou lorsque vous activez la fonction AF (fréquence alternative) ou TA (informations circulation).*
- *Lorsque votre voiture est équipée d'une antenne FM/MW/(PO)/LW(GO) intégrée dans la vitre arrière/latérale, raccordez le fil de commande de l'antenne (bleu) ou l'entrée d'alimentation des accessoires (rouge) au borner de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre revendeur.*
- *Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.*

Connexion pour la conservation de la mémoire
Lorsque le fil d'entrée d'alimentation jaune est connecté, le circuit de la mémoire est alimenté en permanence même si la clé de contact est en position d'arrêt.

Remarques sur la connexion des haut-parleurs
- *Avant de raccorder les haut-parleurs, mettre l'appareil hors tension.*
- *Utiliser des haut-parleurs ayant une impédance de 4 à 8 ohms et une capacité adéquate sous peine de les endommager.*
- *Ne pas raccorder les bornes du système de haut-parleurs au châssis de la voiture et ne pas connecter les bornes du haut-parleur droit à celles du haut-parleur gauche.*
- *Ne pas raccorder le câble de masse de cet appareil à la borne négative (–) du haut-parleur.*
- *Ne pas tenter de raccorder les haut-parleurs en parallèle.*
- *Ne pas connecter d'enceintes acoustiques actives (avec amplificateurs intégrés) aux bornes d'enceinte de cet appareil, pour éviter d'endommager l'appareil. Veiller à raccorder des enceintes passives uniquement.*
- *Pour éviter tout dysfonctionnement, n'utilisez pas les fils des haut-parleurs intégrés installés dans votre voiture si l'appareil dispose d'un fil négatif commun (–) pour les haut-parleurs droit et gauche.*
- *Ne raccordez pas entre eux les cordons des haut-parleurs de l'appareil.*

Remarque sur le raccordement
Si les enceintes et l'amplificateur ne sont pas raccordés correctement, le message « FAILURE » s'affiche. Dans ce cas, assurez-vous que les enceintes et l'amplificateur sont raccordés correctement.

Schema di collegamento (3)

Ⓐ **A AMP REMOTE IN di un amplificatore di potenza opzionale**
Questo collegamento è riservato esclusivamente agli amplificatori. Non collegare un tipo di sistema diverso onde evitare di causare danni all'apparecchio.
Ⓑ **Al cavo interfaccia di un telefono per auto**

Avvertenza
Quando si collega l'apparecchio con il cavo di alimentazione in dotazione ⑦, si potrebbe danneggiare l'antenna elettrica se questa non ha la scatola di relè.

Note sui cavi di controllo
- *Il cavo (blu) di controllo dell'antenna elettrica fornisce alimentazione pari a +12 V CC quando si attiva il sintonizzatore oppure la funzione TA (notiziario sul traffico) o AF (frequenza alternativa).*
- *Se l'automobile è dotata di antenna FM/MW/LW incorporata nel vetro posteriore/laterale, collegare il cavo (blu) di controllo dell'antenna elettrica o il cavo (rosso) di ingresso dell'alimentazione accessoria al terminale di alimentazione del preamplificatore dell'antenna esistente. Per ulteriori informazioni, consultare il proprio fornitore.*
- *Non è possibile usare un'antenna elettrica senza scatola a relè con questo apparecchio.*

Collegamento per la conservazione della memoria
Quando il cavo di ingresso alimentazione giallo è collegato, viene sempre fornita alimentazione al circuito di memoria anche quando l'interruttore di accensione è spento.

Note sul collegamento dei diffusori
- *Prima di collegare i diffusori spegnere l'apparecchio.*
- *Usare diffusori di impedenza compresa tra 4 e 8 ohm e con capacità di potenza adeguata, altrimenti i diffusori potrebbero venir danneggiati.*
- *Non collegare i terminali del sistema diffusori al telaio dell'auto e non collegare i terminali del diffusore destro a quelli del diffusore sinistro.*
- *Non collegare il cavo di terra di questo apparecchio al terminale negativo (–) del diffusore.*
- *Non collegare i diffusori in parallelo.*
- *Assicurarsi di collegare soltanto diffusori passivi, poiché il collegamento di diffusori attivi (dotati di amplificatori incorporati, ai terminali dei diffusori potrebbe danneggiare l'apparecchio.*
- *Per evitare problemi di funzionamento, non utilizzare i cavi dei diffusori incorporati installati nell'automobile se l'apparecchio condivide un cavo comune negativo (–) per i diffusori destro e sinistro.*
- *Non collegare fra loro i cavi dei diffusori dell'apparecchio.*

Nota sui collegamenti
Se l'amplificatore e il diffusore non sono collegati correttamente, "FAILURE" viene visualizzato nel display. In tal caso, accertarsi che l'amplificatore e il diffusore siano collegati correttamente.

Aansluitschema (3)

Ⓐ **Naar AMP REMOTE IN van een los verkrijgbare vermogensversterker**
Deze aansluiting is alleen bedoeld voor versterkers. Door een ander systeem aan te sluiten kan het toestel worden beschadigd.
Ⓑ **Naar het interface-snoer van een autotelefoon**

Opgelet
Indien u een elektrische antenne heeft zonder relaiskast, kan het aansluiten van deze eenheid met het bijgeleverde netsnoer ⑦ de antenne beschadigen.

Opmerkingen betreffende de aansluitsnoeren
- *De antennevoedingskabel (blauw) levert + 12 V gelijkstroom wanneer u de tuner inschakelt of de AF (Alternative Frequency) of TA (Traffic Announcement) functie activeert.*
- *Wanneer uw auto is uitgerust met een FM/MW/LW-antenne in de achterruit/voorruit, moet u de antennevoedingskabel (blauw) of de hulpvoedingskabel (rood) aansluiten op de voedingsingang van de bestaande antenneversterker. Raadpleeg uw dealer voor meer details.*
- *Met dit apparaat is het niet mogelijk een automatische antenne zonder relaishuis te gebruiken.*

Instandhouden van het geheugen
Zolang de gele stroomdraad is aangesloten, blijft de stroomvoorziening van het geheugen intact, ook wanneer het contact van de auto wordt uitgeschakeld.

Opmerkingen betreffende het aansluiten van de luidsprekers
- *Zorg dat het apparaat in uitgeschakeld, alvorens de luidsprekers aan te sluiten.*
- *Gebruik luidsprekers met een impedantie van 4 tot 8 Ohm en let op dat die het vermogen van de versterker kunnen verwerken. Als dit wordt verzuimd, kunnen de luidsprekers ernstig beschadigd raken.*
- *Verbind in geen geval de aansluitingen van de luidsprekers met het chassis van de auto en sluit de aansluitingen van de rechter en linker luidspreker niet op elkaar aan.*
- *Verbind de massakabel van dit toestel niet met de negatieve (–) aansluiting van de luidspreker.*
- *Probeer nooit de luidsprekers parallel aan te sluiten.*
- *Sluit geen actieve luidsprekers (met ingebouwde versterker) aan op de luidspreker-aansluiting van dit apparaat. Dit zal leiden tot beschadiging van de actieve luidsprekers. Sluit dus altijd uitsluitend luidsprekers zonder ingebouwde versterker aan.*
- *Om defecten te vermijden mag u de bestaande luidsprekerbedrading in uw auto niet gebruiken wanneer er een gemeenschappelijke negatieve (–) draad is voor de rechter en linker luidsprekers.*
- *Verbind de luidsprekerdraden niet met elkaar.*

Opmerking over aansluiten
Als de luidsprekers en versterker niet correct zijn aangesloten, wordt "FAILURE" in het display weergegeven. In dit geval moet u zorgen dat de luidsprekers en versterker correct zijn aangesloten.

Connections (E model)

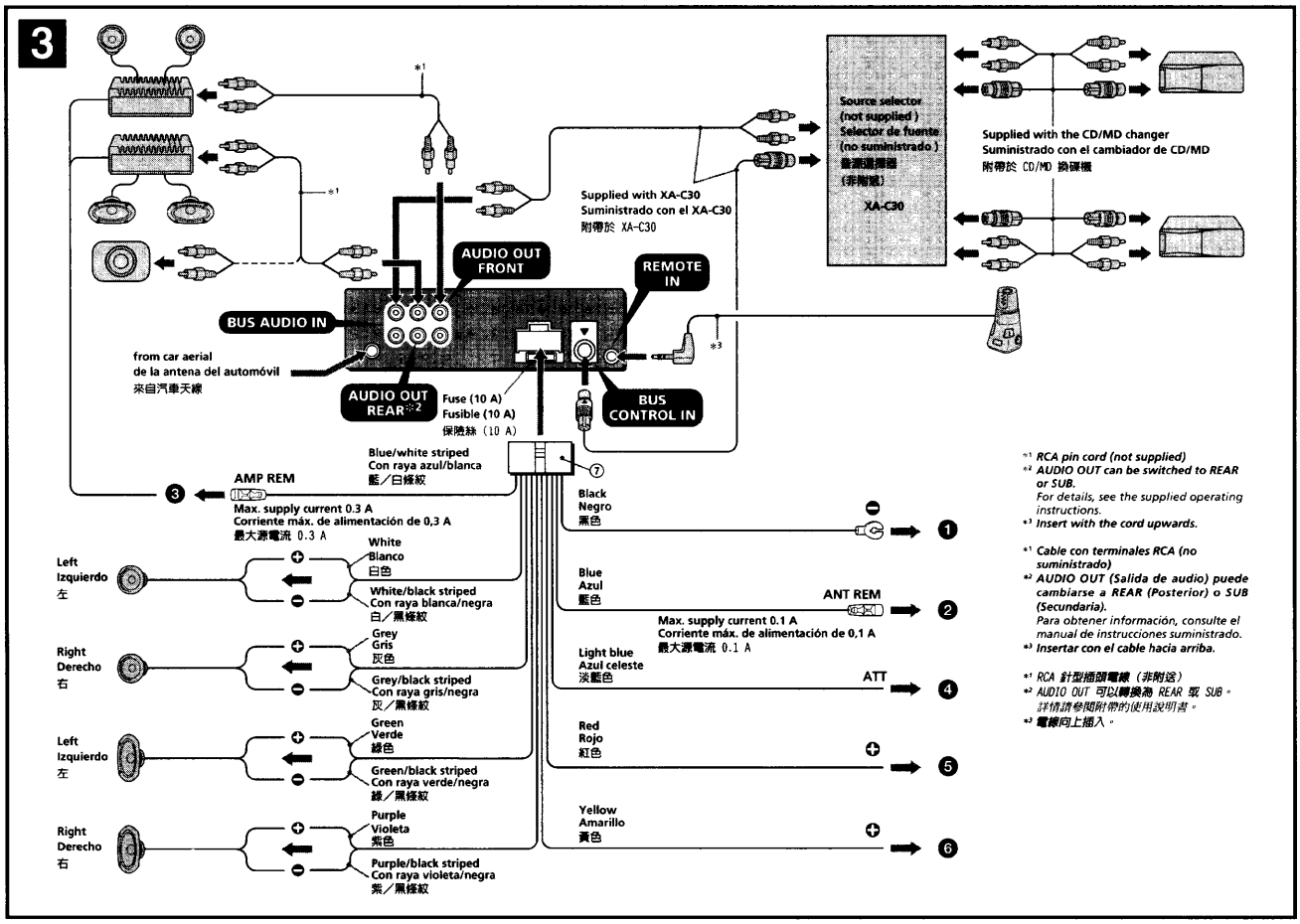


Diagrama de conexión (3)

❶ **A una superficie metálica del automóvil**
Conecte primero el cable de puesta a masa negro, y después los cables amarillo y rojo de entrada de alimentación.

❷ **Al cable de control de la antena motorizada o al cable de fuente de alimentación del amplificador de antena**
Notas
- *Si no se dispone de antena motorizada ni de amplificador de antena, o se utiliza una antena telescópica accionada manualmente, no será necesario conectar este cable.*
- *Si el automóvil incorpora una antena de FM/AM en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".*

❸ **Para conectar a AMP REMOTE IN del amplificador de potencia opcional**
Esta conexión es sólo para amplificadores. La conexión de cualquier otro sistema puede dañar la unidad.

❹ **Al cable de interfaz de un teléfono para automóvil**

❺ **Al terminal de alimentación de +12 V que recibe energía en la posición de accesorio del interruptor de la llave de encendido**
Notas
- *Si no hay posición de accesorio, conéctelo al terminal de alimentación (batería) de +12 V que recibe energía sin interrupción.*
  Asegúrese de conectar primero el cable de toma a tierra negro a una superficie metálica del automóvil.
- *Si el automóvil incorpora una antena de FM/AM en el cristal trasero/lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".*

❻ **Al terminal de alimentación de +12 V que recibe energía sin interrupción**
Asegúrese de conectar primero el cable de toma a tierra negro a una superficie metálica del automóvil.

Notas sobre los cables de control y de fuente de alimentación
- *El cable de control de la antena motorizada (azul) suministrará cc de + 12V cuando conecte la alimentación del sintonizador.*
- *Si el automóvil dispone de una antena de FM/AM incorporada en el cristal trasero/lateral, conecte el cable de control de antena motorizada (azul) o el cable de entrada de alimentación auxiliar (rojo) al terminal de alimentación del amplificador de antena existente. Para obtener más información, consulte a su proveedor.*
- *Con esta unidad no es posible utilizar una antena motorizada sin caja de relé.*

Conexión para protección de la memoria
Si conecta el conductor de entrada amarillo, el circuito de la memoria recibirá siempre alimentación, aunque apague la llave de encendido.

Notas sobre la conexión de los altavoces
- *Antes de conectar los altavoces, desconecte la alimentación de la unidad.*
- *Utilice altavoces con una impedancia de 4 a 8 Ω con la capacidad de potencia adecuada para evitar que se dañen.*
- *No conecte los terminales de altavoz al chasis del automóvil, ni conecte los terminales del altavoz derecho con los del izquierdo.*
- *No conecte el cable de toma a tierra de esta unidad al terminal negativo (–) del altavoz.*
- *No intente conectar los altavoces en paralelo.*
- *Conecte solamente altavoces pasivos. Si conecta altavoces activos (con amplificadores incorporados) a los terminales de altavoz, puede dañar la unidad.*
- *Para evitar fallos de funcionamiento, no utilice los cables de altavoz incorporados instalados en el automóvil si su unidad comparte un cable negativo común (–) para los altavoces derecho e izquierdo.*
- *No conecte los cables de altavoz de la unidad entre sí.*

Nota sobre la conexión
Si el altavoz y el amplificador no están conectados correctamente, aparecerá "FAILURE" en la pantalla. Si es así, compruebe la conexión de ambos dispositivos.

線路連接■（3）

❶ **連接至汽車的金屬表面**
首先連接黑色接地導線，然後再連接黃色和紅色電源輸入導線。

❷ **連接至電動天線控制導線或天線升壓放大器的電源導線**
註
- *如無電動天線，天線升壓器，或有手動套管式天線，便不須連接此導線。*
- *您汽車的後／側玻璃窗中如果有內置 FM/AM 天線，即請參看"控制線和電源線須知"。*

❸ **連接至選購的功率放大器的 AMP REMOTE IN（放大器遙控輸入）**
本連接僅用於放大器。連接任何其它系統可能會損壞本機。

❹ **連接至汽車電話的接口電纜**

❺ **連接至在點火鑰匙開關的附件位置上通電的 +12 V 電源端子**
註
- *若沒有附件位置，則請連接至始終通電的 +12 V 電源（電池）端子。*
  必須首先將黑色接地導線連接至汽車的金屬表面。
- *您汽車的後／側玻璃窗中如果有內置 FM/AM 天線，即請參看"控制線和電源線須知"。*

❻ **連接至始終通電的 +12 V 電源端子**
必須首先將黑色接地導線連接至汽車的金屬表面。

控制線和電源線須知
- *接通調諧器電源時，電動天線的控制導線（藍色）便能提供 +12 V 直流電。*
- *若您的汽車後／側玻璃窗上有內置 FM/AM 天線，須將電動天線控制導線（藍色）或輔助電源輸入導線（紅色）連接到現有天線升壓器上的電源端子上。詳細內容請向銷售商詢問。*
- *本機不能使用不具備繼電器盒的電動天線。*

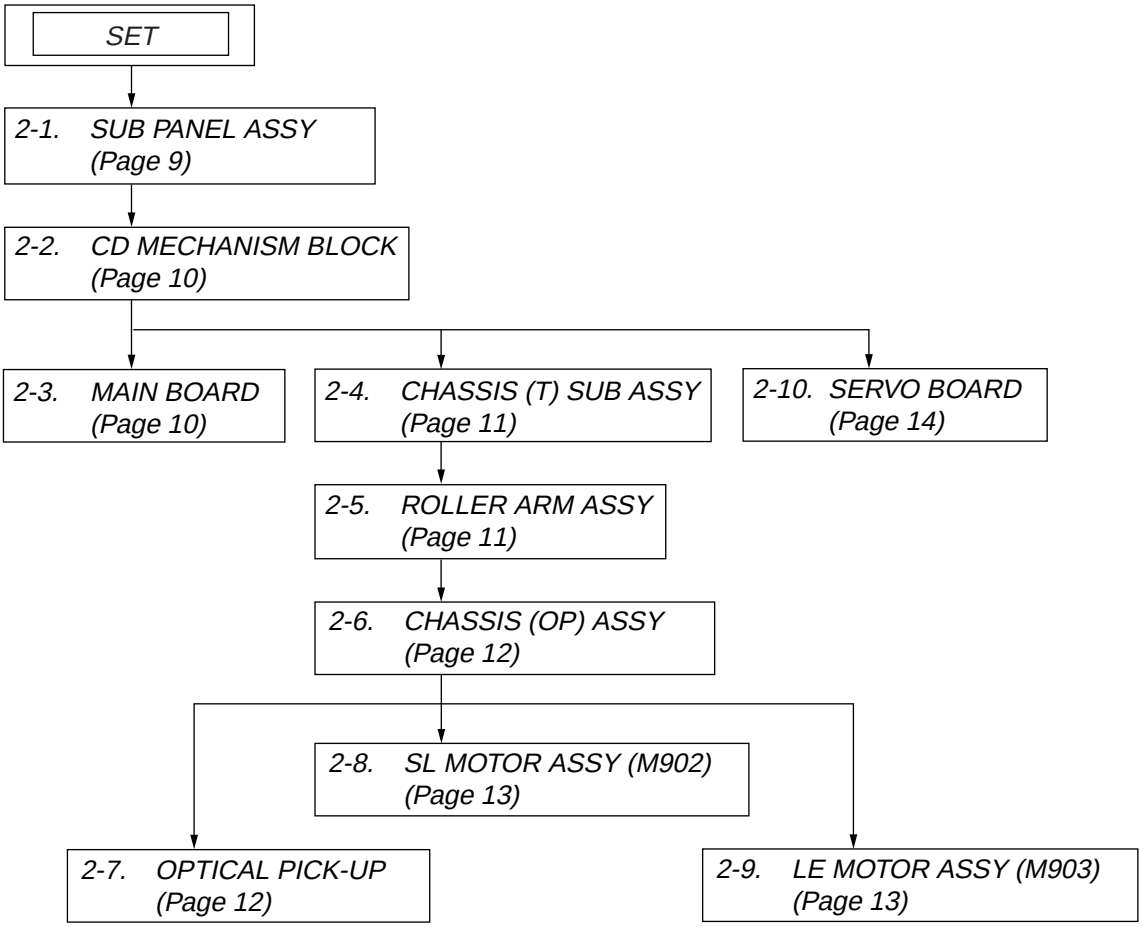
保持記憶的線路連接法
當連接好黃色電源輸入導線時，即使汽車發動機點火鑰匙關閉，電源仍將對記憶電路供電。

連接揚聲器時的注意事項
- *連接揚聲器電線以前，請先關閉本機電源。*
- *使用阻抗爲 4–8Ω 且具有足夠功率處理容量的揚聲器，以免損壞揚聲器。*
- *不要將揚聲器端子連接到車身上，或將右揚聲器端子與左揚聲器端子相連接。*
- *切勿將本機的接地導線連接至揚聲器的負 (–) 接線端。*
- *揚聲器不可並聯連接。*
- *請僅連接無源揚聲器。若將有源揚聲器（帶內置放大器）連接到揚聲器端子上會損壞本機。*
- *若本裝置使用左、右揚聲器的共用負極（–）導線，爲了避免故障，切勿使用已安裝在汽車內的內置揚聲器導線。*
- *請勿將本裝置揚聲器導線相互連接。*

有關連接注意事項
如果未正確連接揚聲器和放大器，則顯示幕上會出現"FAILURE"。此時，請正確連接揚聲器和放大器。

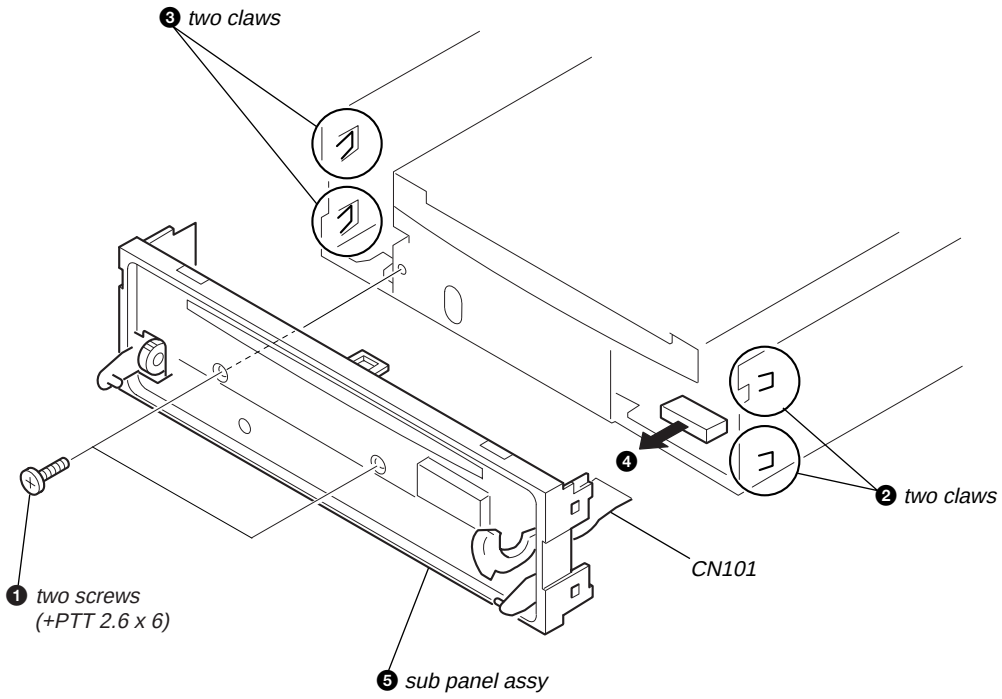
SECTION 2
DISASSEMBLY

Note : This set can be disassemble according to the following sequence.

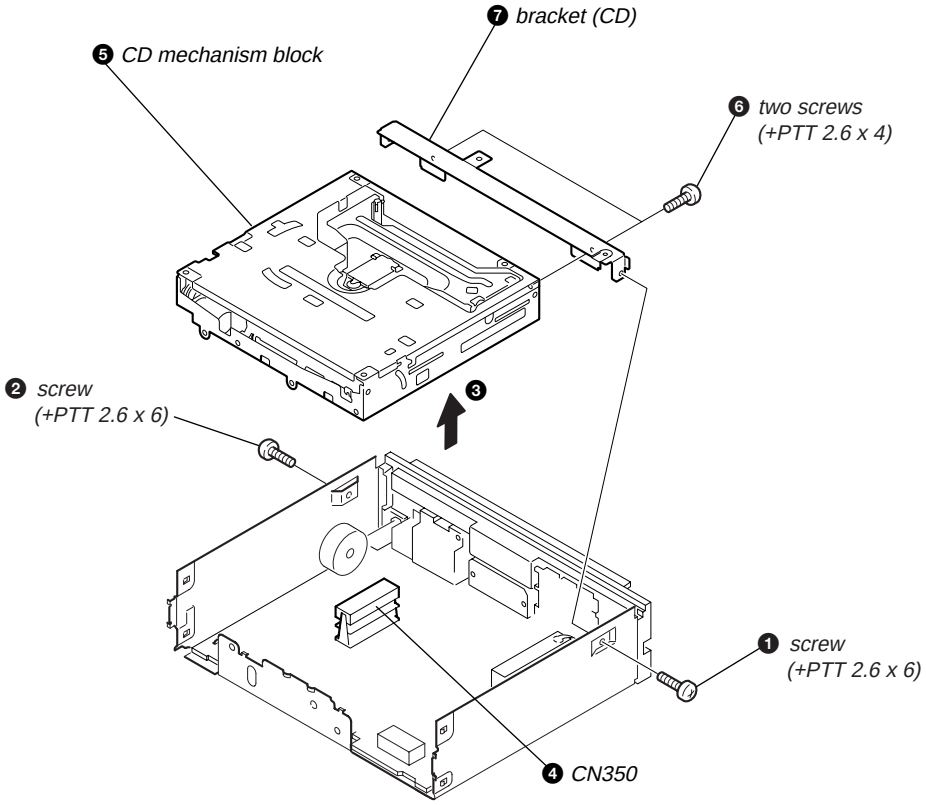

SET
2-1. SUB PANEL ASSY (Page 9)
2-2. CD MECHANISM BLOCK (Page 10)
2-3. MAIN BOARD (Page 10)
2-4. CHASSIS (T) SUB ASSY (Page 11)
2-10. SERVO BOARD (Page 14)
2-5. ROLLER ARM ASSY (Page 11)
2-6. CHASSIS (OP) ASSY (Page 12)
2-8. SL MOTOR ASSY (M902) (Page 13)
2-7. OPTICAL PICK-UP (Page 12)
2-9. LE MOTOR ASSY (M903) (Page 13)

Note : Follow the disassembly procedure in the numerical order given.

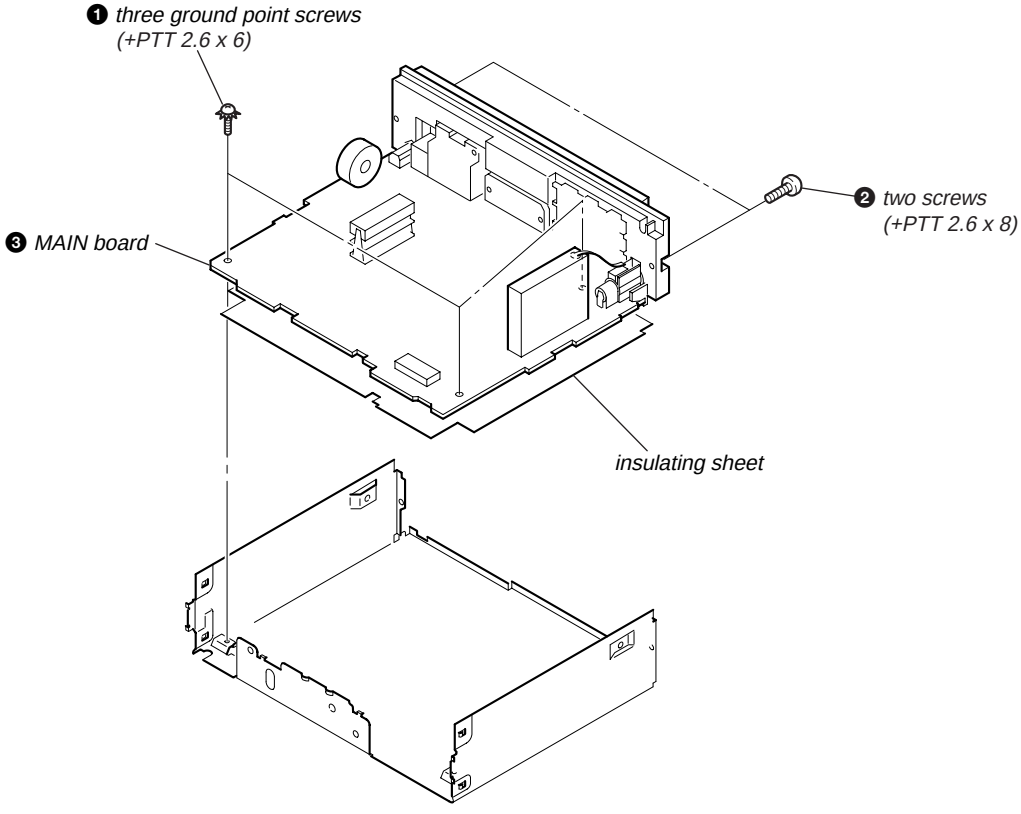
2-1. SUB PANEL ASSY



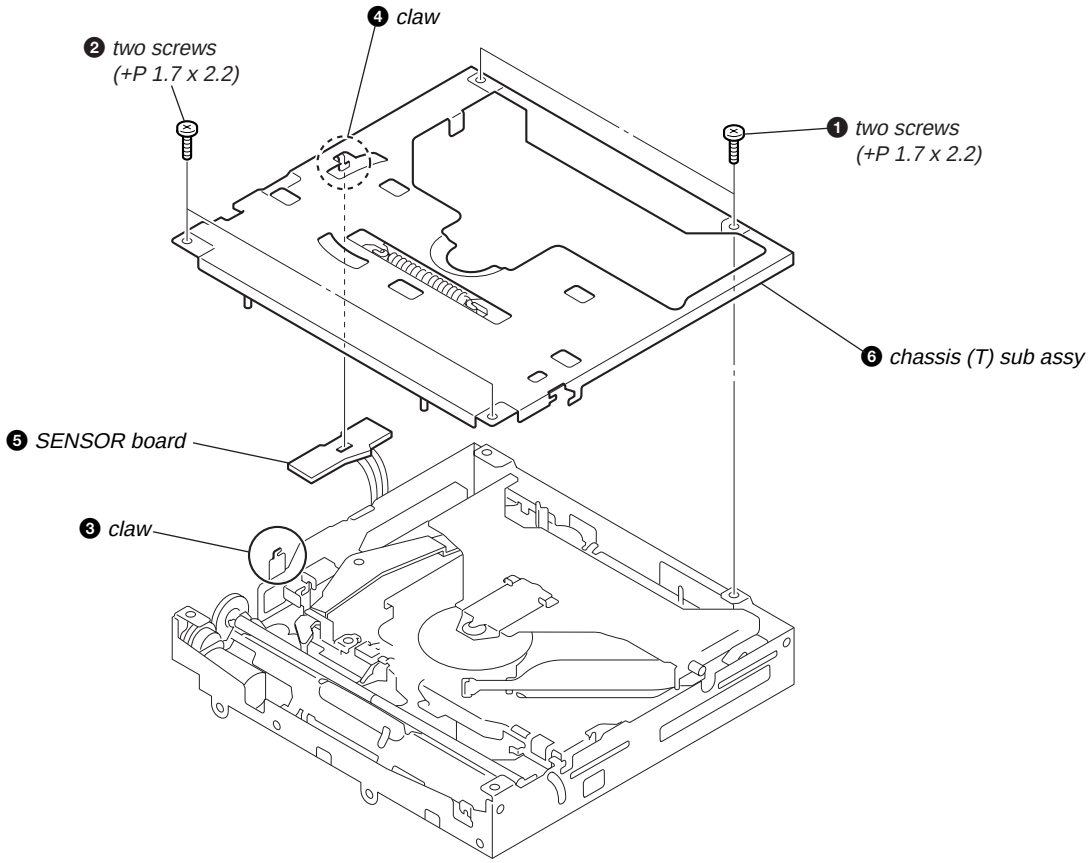
2-2. CD MECHANISM BLOCK



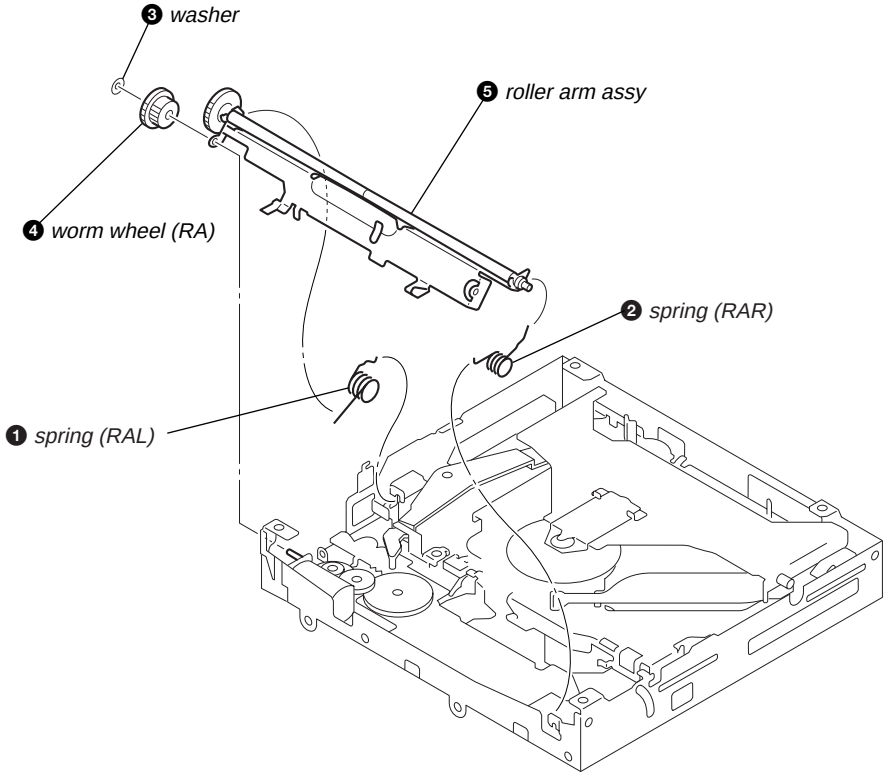
2-3. MAIN BOARD



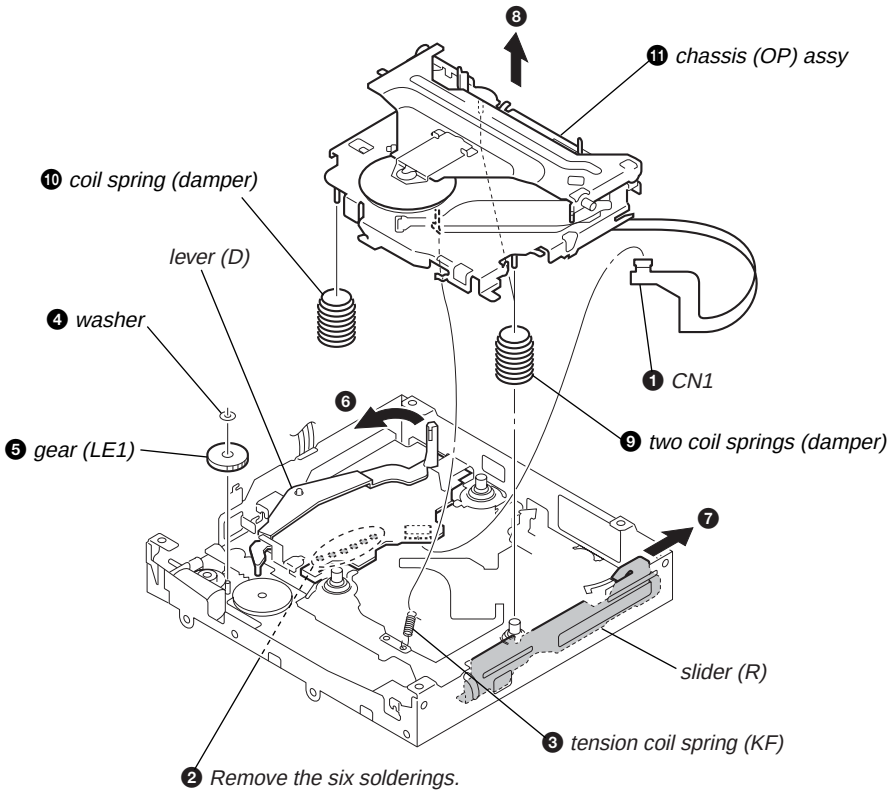
2-4. CHASSIS (T) SUB ASSY



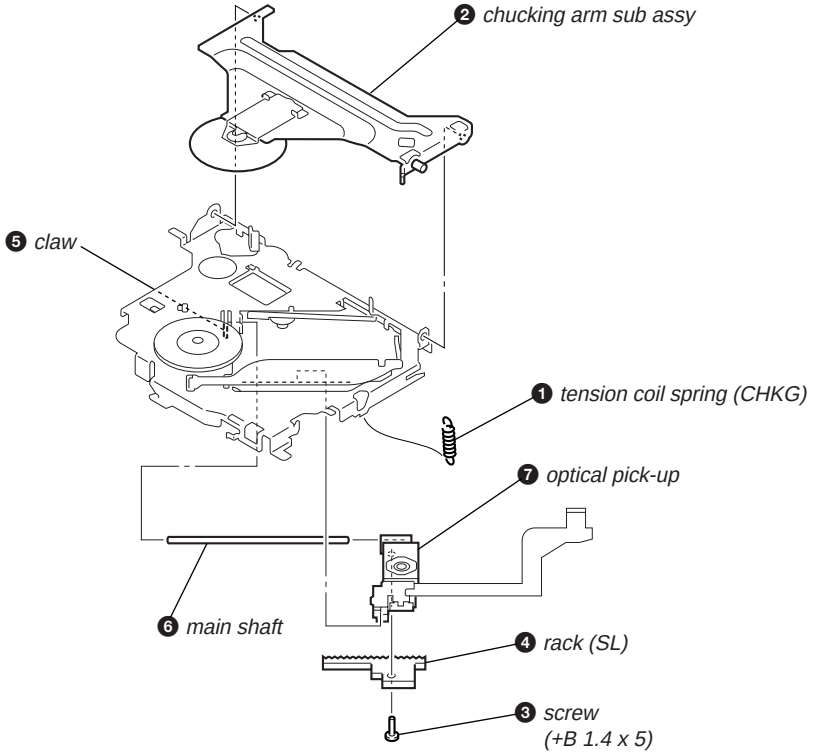
2-5. ROLLER ARM ASSY



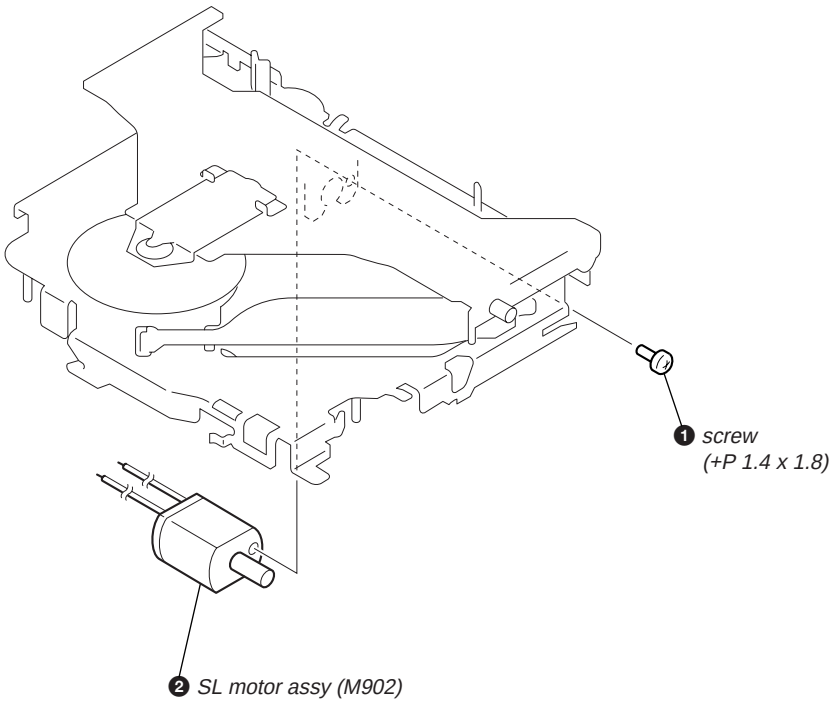
2-6. CHASSIS (OP) ASSY



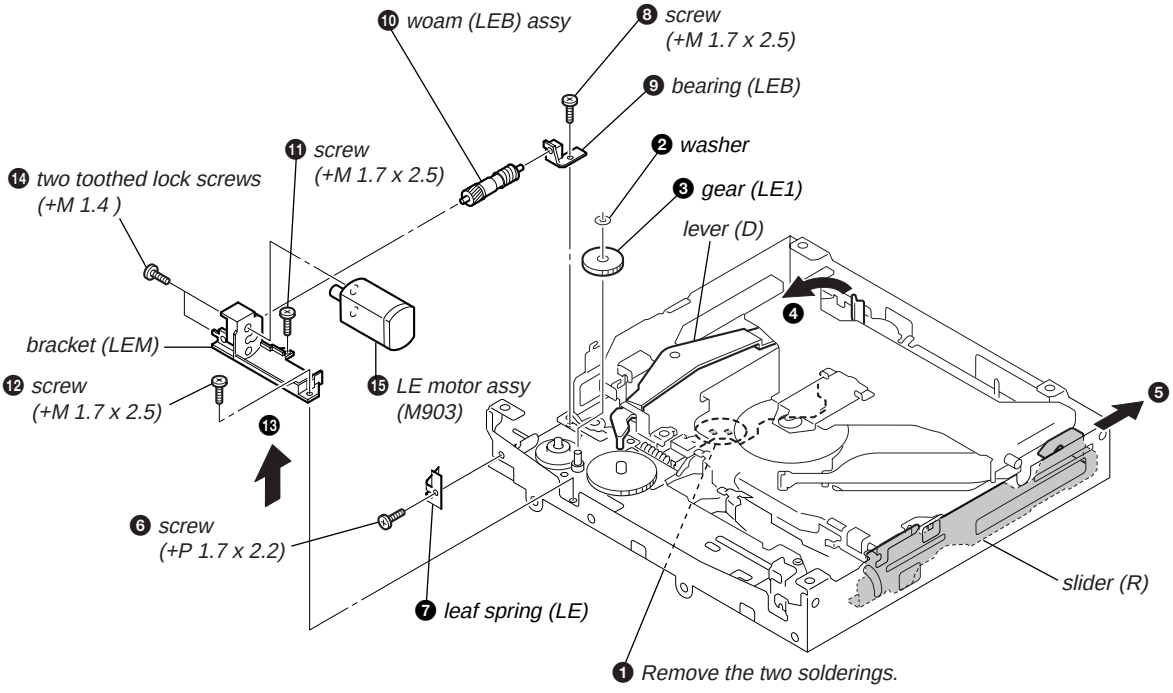
2-7. OPTICAL PICK-UP



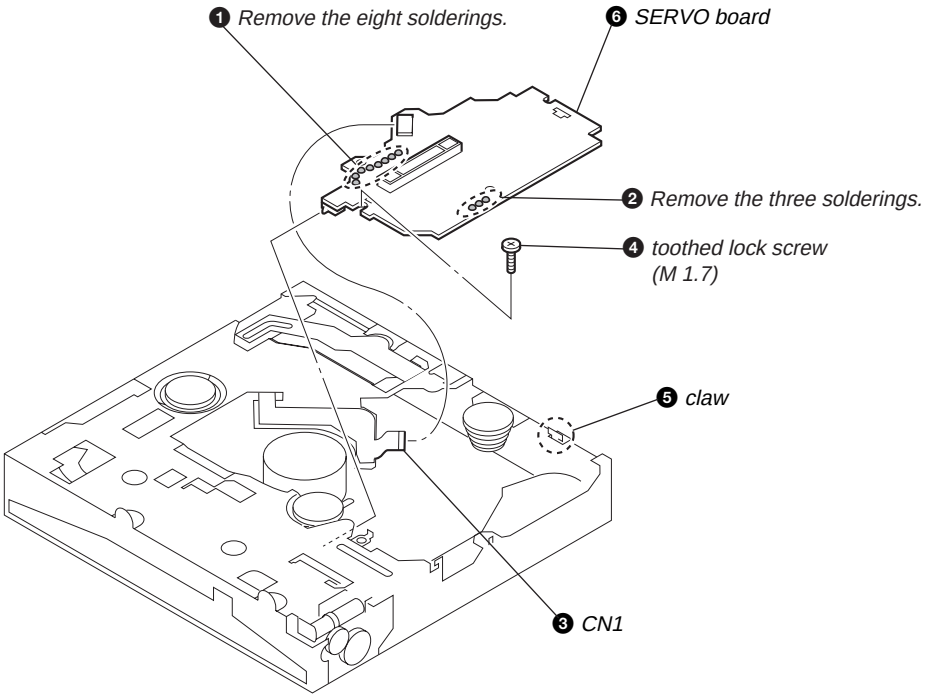
2-8. SL MOTOR ASSY (M902)



2-9. LE MOTOR ASSY (M903)



2-10. SERVO BOARD



SECTION 3
DIAGRAMS

3-1. IC PIN DESCRIPTIONS

• IC3 CXD3059AR (DIGITAL SERVO/DIGITAL SIGNAL PROCESSOR) (SERVO BOARD (1/2))

Pin No.	Pin Name	I/O	Pin Description
1	MIRR	I/O	Mirror signal input/output (Not used in this set)
2	DFCT	I/O	Defect signal input/output (Not used in this set)
3	FOK	I/O	Focus OK signal input/output
4	VSS	—	Ground
5	LOCK	I/O	Lock signal input/output (Not used in this set)
6	MDP	O	Spindle motor servo control signal output
7	SSTP	I	Disc most inner detection signal input (Fixed at L in this set)
8	IOVSS1	—	Digital ground
9	SFDR	O	Sled drive signal output (FWD direction)
10	SRDR	O	Sled drive signal output (REV direction)
11	TFDR	O	Tracking drive signal output (FWD direction)
12	TRDR	O	Tracking drive signal output (REV direction)
13	FFDR	O	Focus drive signal output (FWD direction)
14	FRDR	O	Focus drive signal output (REV direction)
15	IOVDD1	—	Digital power supply pin (+3.3 V)
16	AVDD0	—	Analog power supply pin (+3.2 V)
17	AVSS0	—	Analog ground
18	NC	—	Not used. (Open)
19	E	I	E signal input
20	F	I	F signal input
21	TEI	I	Tracking error signal input
22	TEO	O	Tracking error signal output
23	FEI	I	Focus error signal input
24	FEO	O	Focus error signal output
25	VC	I/O	VC voltage output/Center voltage input
26	A	I	A signal input
27	B	I	B signal input
28	C	I	C signal input
29	D	I	D signal input
30	NC	—	Not used. (Open)
31	AVDD4	—	Analog power supply pin (+3.2 V)
32	RFDCO	I/O	RFDC signal input/output (Not used in this set)
33	PDSENS	I	Reference voltage input (Fixed at L in this set)
34	AC_SUM	O	RFAC summing amplifier signal output
35	EQ_IN	I	Equalizer circuit signal input
36	LD	O	APC amplifier signal output
37	PD	I	APC amplifier signal input
38	NC	—	Not used. (Open)
39	RFC	I	EQ cut off frequency adjustment input
40	AVSS4	—	Analog ground
41	RFACO	O	RFAC signal output
42	RFACI	I	RFAC signal input
43	AVDD3	—	Analog power supply pin (+3.2 V)
44	BIAS	I	Asymmetry circuit constant current input
45	ASYI	I	Asymmetry comparate voltage input
46	ASYO	O	EFM full swing signal output
47	VPCO	O	Charge pump output
48	VCTL	I	VCO2 control voltage input
49	AVSS3	—	Analog ground
50	CLTV	I	VCO1 control voltage input
51	FILO	O	Filter signal output

Pin No.	Pin Name	I/O	Pin Description
52	FILI	I	Filter signal input
53	PCO	O	Charge pump output
54	AVDD5	—	Analog power supply pin (+3.3 V)
55	DDVROUT	O	DC/DC converter output
56	DDVRSEN	I	DC/DC converter output voltage monitor signal input
57	AVSS5	—	Analog ground
58	DDCR	I	Reset signal input
59	NC	—	Not used. (Open)
60	BCKI	I	D/A interface bit clock signal input
61	PCMDI	I	D/A interface serial data signal input
62	LRCKI	I	D/A interface LR clock signal input
63	LRCK	O	D/A interface LR clock signal output
64	VSS	—	Ground
65	PCMD	O	D/A interface serial data signal output
66	BCK	O	D/A interface bit clock signal output
67	VDD	—	Power supply pin (+2.6 V)
68	EMPH	O	Not used. (Open)
69	EMPHI	I	Not used. (Fixed at L in this set)
70	IOVDD2	—	Digital power supply pin (+3.3 V)
71	DOUT	—	Digital out signal output (Not used in this set)
72, 73	TEST	I	Test pin (Normally, fixed at L)
74	IOVSS2	—	Digital ground
75	NC	—	Not used. (Open)
76	XVSS	—	Ground
77	XTAO	O	Master clock signal output (16.9344 MHz)
78	XTAI	I	Master clock signal input (16.9344 MHz)
79	XVDD	—	Power supply pin (+2.6 V)
80	AVDD1	—	Analog power supply pin (+3.3 V)
81	AOUT1	O	L channel analog signal output
82	VREFL	O	L channel reference voltage output
83, 84	AVSS1,AVSS2	—	Analog ground
85	VREFR	O	R channel reference voltage output
86	AOUT2	O	R channel analog signal output
87	AVDD2	—	Analog power supply pin (+3.3 V)
88	NC	—	Not used. (Open)
89	IOVDD0	—	Digital power supply pin (+3.3 V)
90	RMUT	O	R channel “0” detection flug output
91	LMUT	O	L channel “0” detection flug output
92	NC	—	Not used. (Open)
93	XTSL	I	Sub clock signal input (Fixed at L in this set)
94	IOVSS0	—	Digital ground
95	XTACN	I	Oscillation circuit control signal input (Fixed at H in this set)
96	SQSO	O	Sub 80 bit, PCM peak and level data signal output
97	SQCK	I	Clock signal input
98	SBSO	O	Sub P-W serial data signal output (Not used in this set)
99	EXCK	I	Clock signal input (Not used in this set)
100	XRST	I	System reset signal input
101	SYSM	I	Mute signal input (Fixed at L in this set)
102	DATA	I	Serial data signal input
103	VSS	—	Ground
104	XLAT	I	Latch signal input
105	CLOK	I	Serial data transfer clock signal input
106	VDD	—	Power supply pin (+2.6 V)

Pin No.	Pin Name	I/O	Pin Description
107	SENS	O	SENS signal output
108	SCLK	I	Clock signal input
109	ATSK	I/O	Input/output for anti-shock. (Fixed at L in this set)
110	WFCK	O	WFCK signal output (Not used in this set)
111	XUGF	O	XUGF signal output (Not used in this set)
112	XPCK	O	XPCK signal output (Not used in this set)
113	GFS	O	GFS signal output
114	C2PO	O	C2PO signal output
115	SCOR	O	Sub code sync signal output
116	VDD	—	Power supply pin (+2.6 V)
117	C4M	O	4.2366 MHz signal output (Not used in this set)
118	WDCK	O	Word clock signal output (Not used in this set)
119	COUT	I/O	Track count signal output/output (Not used in this set)
120	NC	—	Not used. (Open)

• IC500 MN101E01KDE (SYSTEM CONTROL) (MAIN BOARD (2/2))

Pin No.	Pin Name	I/O	Pin Description
1	DAVDD	—	D/A converter power supply (+) pin (+3.3 V)
2	NCO	O	Not used. (Open)
3	DAVSS	—	D/A converter power supply (–) pin
4	UNISO	O	SONY-BUS data output
5	UNISI	I	SONY-BUS data input
6	UNICKO	O	SONY-BUS clock output
7	RETRA_SW	I	Not used. (Open)
8, 9	NCO	O	Not used. (Open)
10	VDD1	—	Power supply pin (+3.3 V)
11	MMOD	I	Not used. (Fixed at L in this set)
12	OSCOUT	O	Main clock output (27.648 MHz)
13	OSCIN	I	Main clock input (27.648 MHz)
14	VSS1	—	Ground
15	XIN	I	Sub clock input (32.768 kHz)
16	XOUT	O	Sub clock output (32.768 kHz)
17	VDD2	—	Power supply pin (+3.3 V)
18	MOD1	—	Not used. (Fixed at H in this set)
19	$\overline{\text{RESET}}$	I	Microcomputer reset input
20	RCIN1	I	Rotary commander SHIFT key input
21	$\overline{\text{ACCIN}}$	I	Accessory power supply detection input
22	$\overline{\text{TESTIN}}$	I	Test mode detection input
23	TELATT	I	Telephone attenuator detection input
24	ATT	O	Audio mute control output
25	$\overline{\text{ADON}}$	O	A/D converter power supply control output
26	NCO	O	Not used. (Open)
27	KEYACK	I	Key acknowledge detection input
28	TUATTIN	I	Mute zero cross detection input from tuner unit. (AEP, UK model)
29	CDON	I	Servo power supply control input from CD system control IC.
30	CDMON	I	Loading 6V power supply control input from CD system control IC.
31	BUIN	I	Backup power supply detection input
32 to 35	NCO	O	Not used. (Open)
36	$\overline{\text{BUSON}}$	O	BUS ON output to CD system control IC.
37	$\overline{\text{SYSRST}}$	O	System reset output to CD system control IC.
38 to 41	NCO	O	Not used. (Open)
42	Z_MUTE	I	Mute zero cross detection input from CD system control IC.
43 to 49	NCO	O	Not used. (Open)
50	BBESEL	I	Fixed at H in this set.
51	NCO	O	Not used. (Open)
52	AREASEL1	I	Destination area initial setting input (L: except E model, H: E model)
53	AREASEL0	I	Destination area initial setting input (L: AEP, UK model, H: CDX-F5505X) (L: 10K, H: 9K (E model))
54 to 56	NCO	O	Not used. (Open)
57	EJECT_OK_SW	O	Not used. (Open)
58	$\overline{\text{PANELSW}}$	I	Front panel detach detection input (L: with front panel, H: without front panel)
59	DIAG	I	Mode input from power amp IC.
60	$\overline{\text{VOLATT}}$	O	Attenuator control output to electronic volume IC.
61	$\overline{\text{NOSESW}}$	O	Nose detection output
62	NCO	O	Not used. (Open)
63	VSS2	—	Ground
64	TUATT	O	Tuner mute control output
65	NCO (TUON)	O	Not used. (Open)
66	NSMASK	O	Noise mask output (AEP, UK model)

Pin No.	Pin Name	I/O	Pin Description
67	E2P_CKO	O	Serial clock output to EEPROM communication.
68	E2P_SIO	I/O	Serial data input/output with EEPROM communication.
69	DOORIND	O	Door indicator detection output
70	AMPSTB	O	Standby control output to power amp IC.
71	NCO	O	Not used. (Open)
72	FLS.SO/LCDSO	O	Serial data output to LCD driver IC.
73	FLS.SI/LCDCE	O	Chip enable output to LCD driver IC.
74	LCDCKO	O	Serial clock output to LCD driver IC.
75 to 78	NCO	O	Not used. (Open)
79	I2C_SIO	I/O	I2C bus serial data input/output
80	NCO	O	Not used. (Open)
81	I2C_CKO	O	I2C bus serial clock output
82	DAVN	I	RDS data block synchronization detection input (AEP, UK model)
83	SIRCS	I	SIRCS signal input
84	NCO	O	Not used. (Open)
85	BEEP	O	Beep output to power amp IC.
86 to 88	NCO	O	Not used. (Open)
89	VDD3	—	Power supply pin (+3.3 V)
90	NCO	O	Not used. (Open)
91	VSS3	—	Ground
92	QUALITY	I	Noise detection input (AEP, UK model)
93	VSM	I	S-meter voltage detection input
94, 95	KEYIN1, 0	I	Key input 1, 0
96	RCIN0	I	Rotary commander key input
97 to 99	NCO	O	Not used. (Open)
100	VREF+	—	A/D converter power supply (+) pin (+3.3 V)

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

for schematic diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- ▭ : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

- ▬ : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ⇨ : FM
  - ➡ : AM (US, Canadian, E model) or MW (AEP, UK model)
  - ⇨ : CD
- Abbreviation
  CND : Canadian model

for printed wiring boards:

- o——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ○ : Through hole.
- ▬ : Pattern from the side which enables seeing.
  (The other layer's patterns are not indicated.)

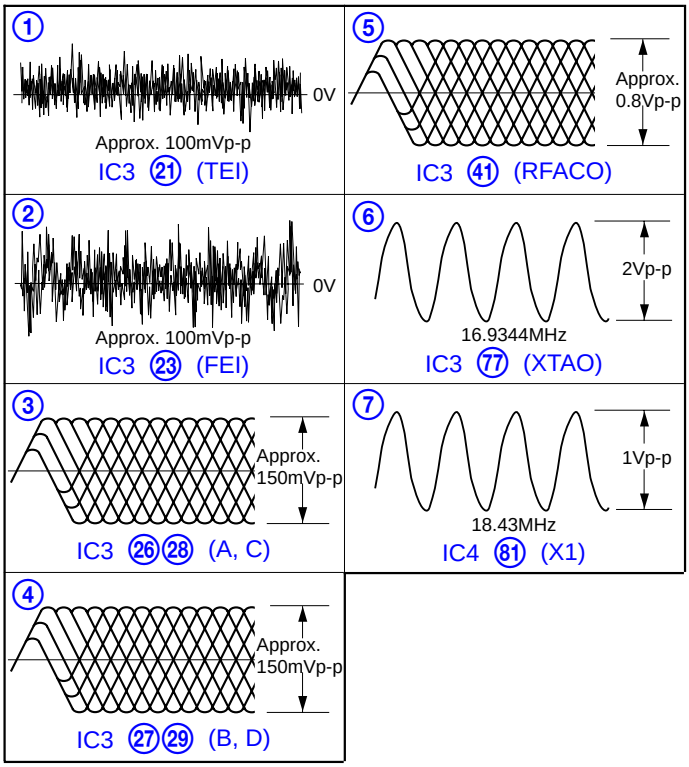
Caution:	
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.

- Abbreviation
  CND : Canadian model

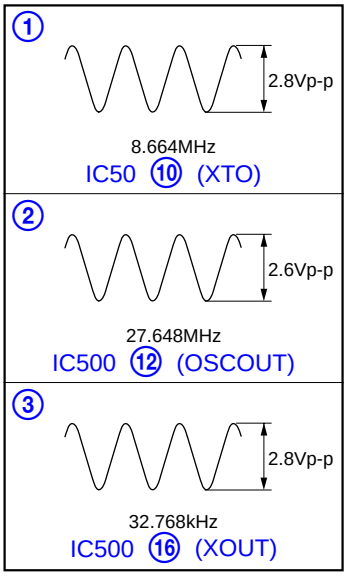
• Waveforms

— Servo Board —

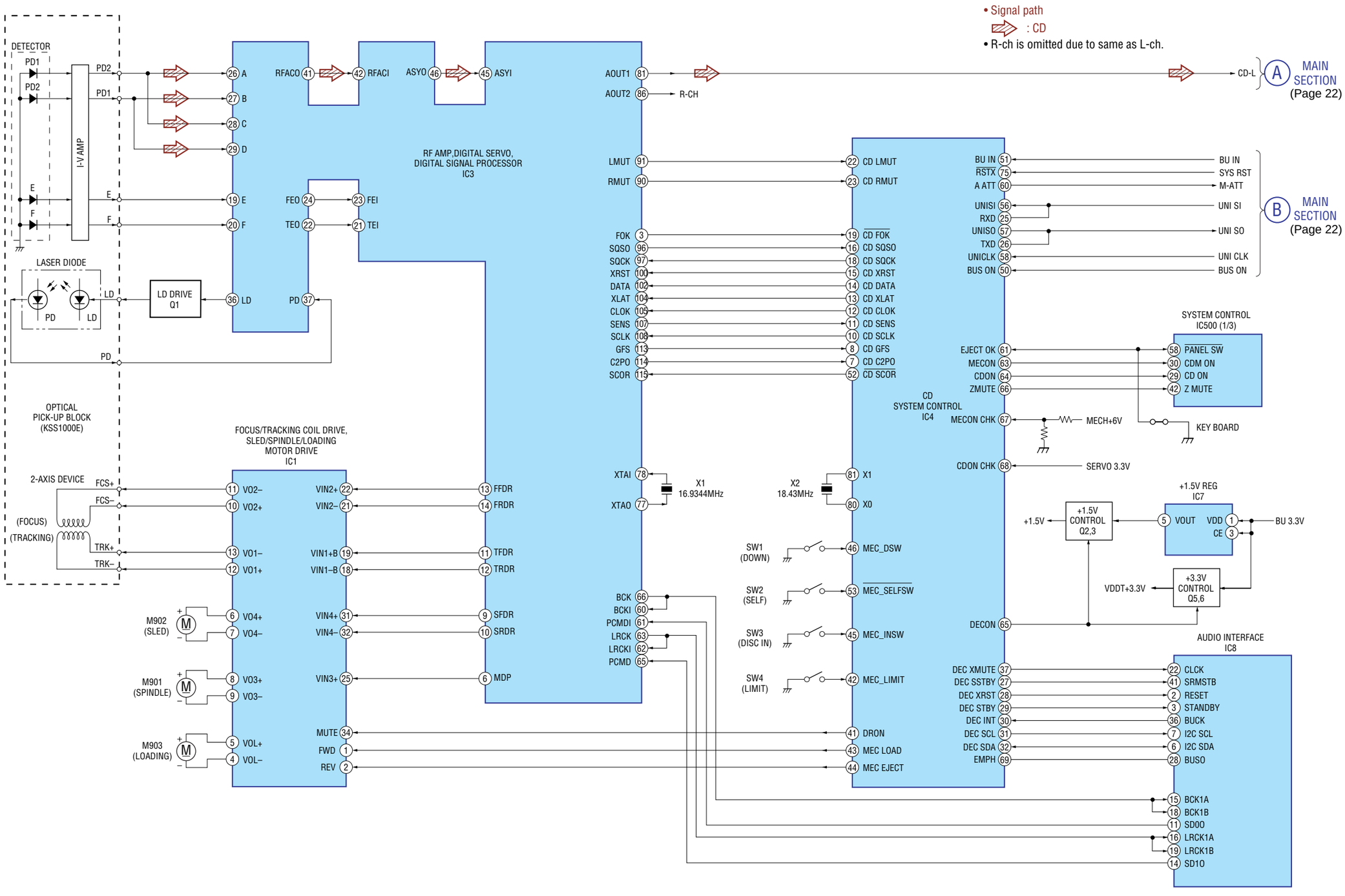
(MODE: CD PLAY)



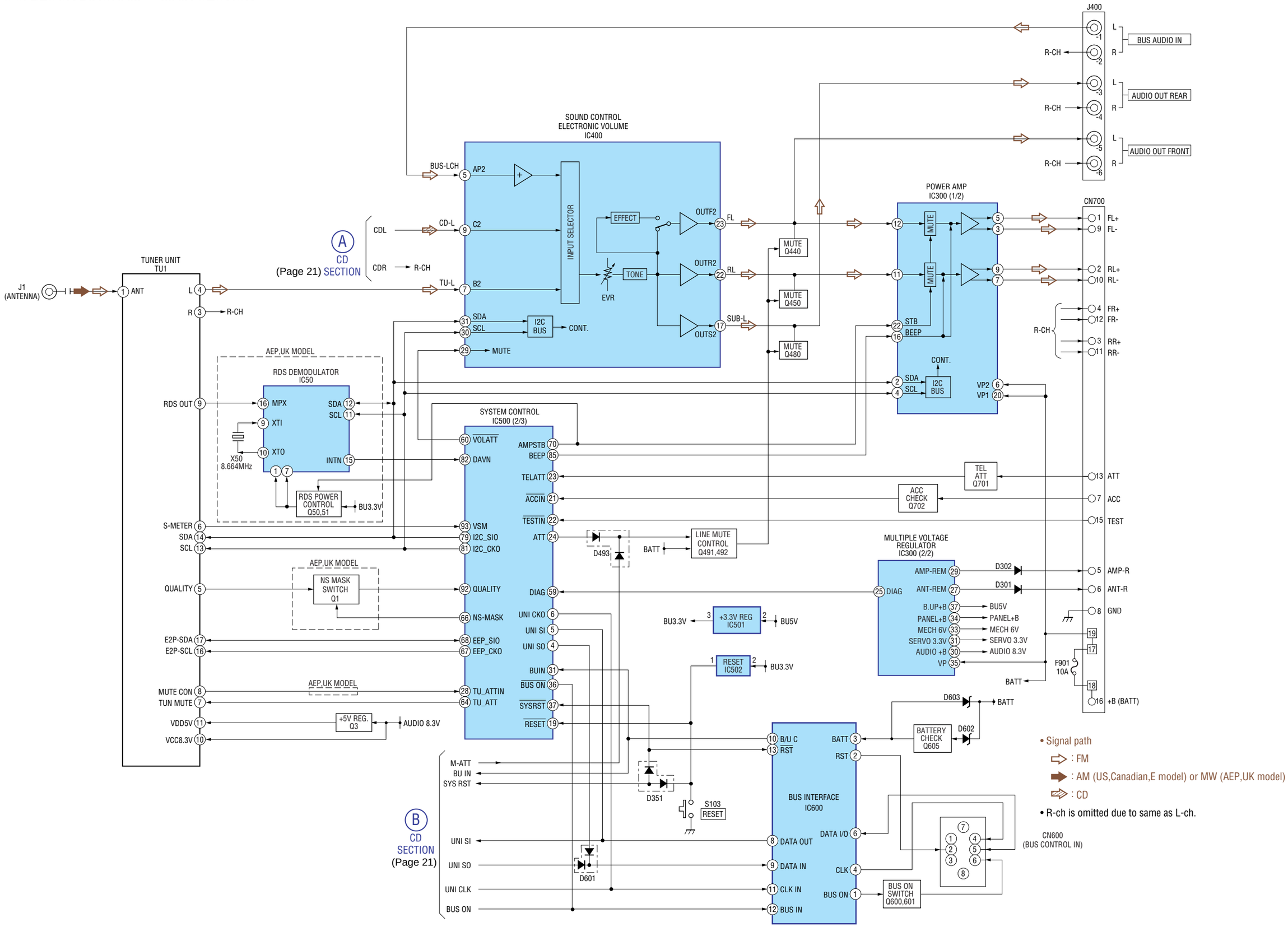
— Main Board —



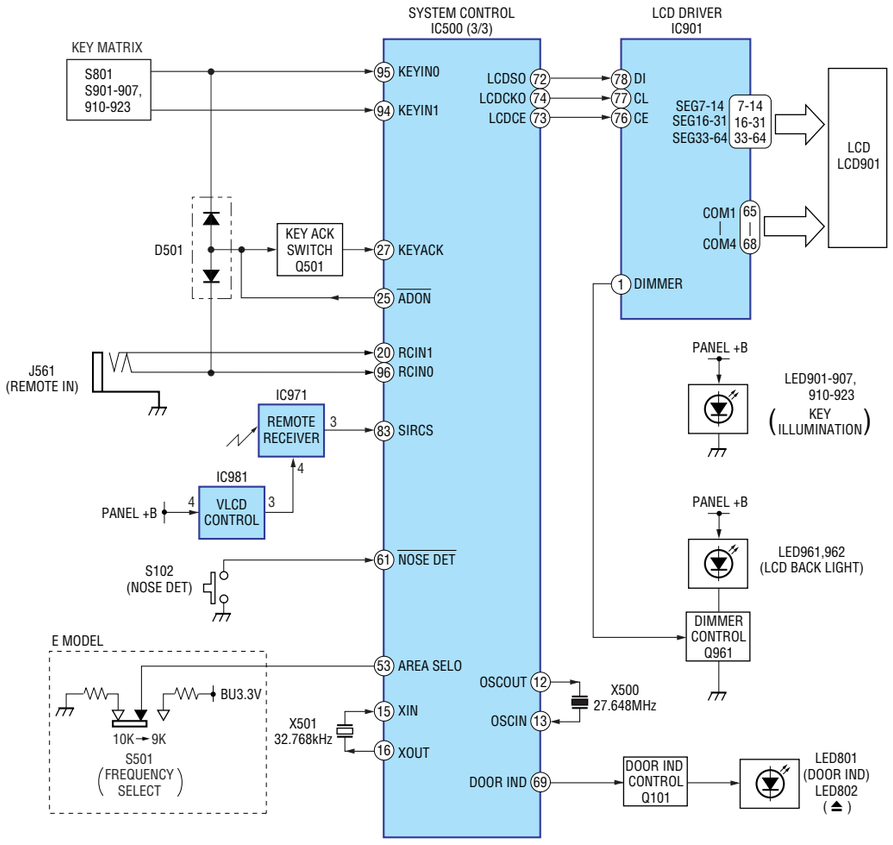
3-2. BLOCK DIAGRAM — CD SECTION —



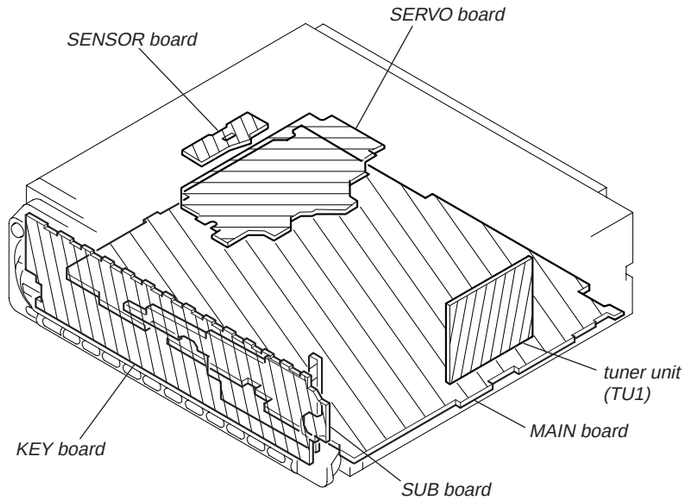
3-3. BLOCK DIAGRAM — MAIN SECTION —



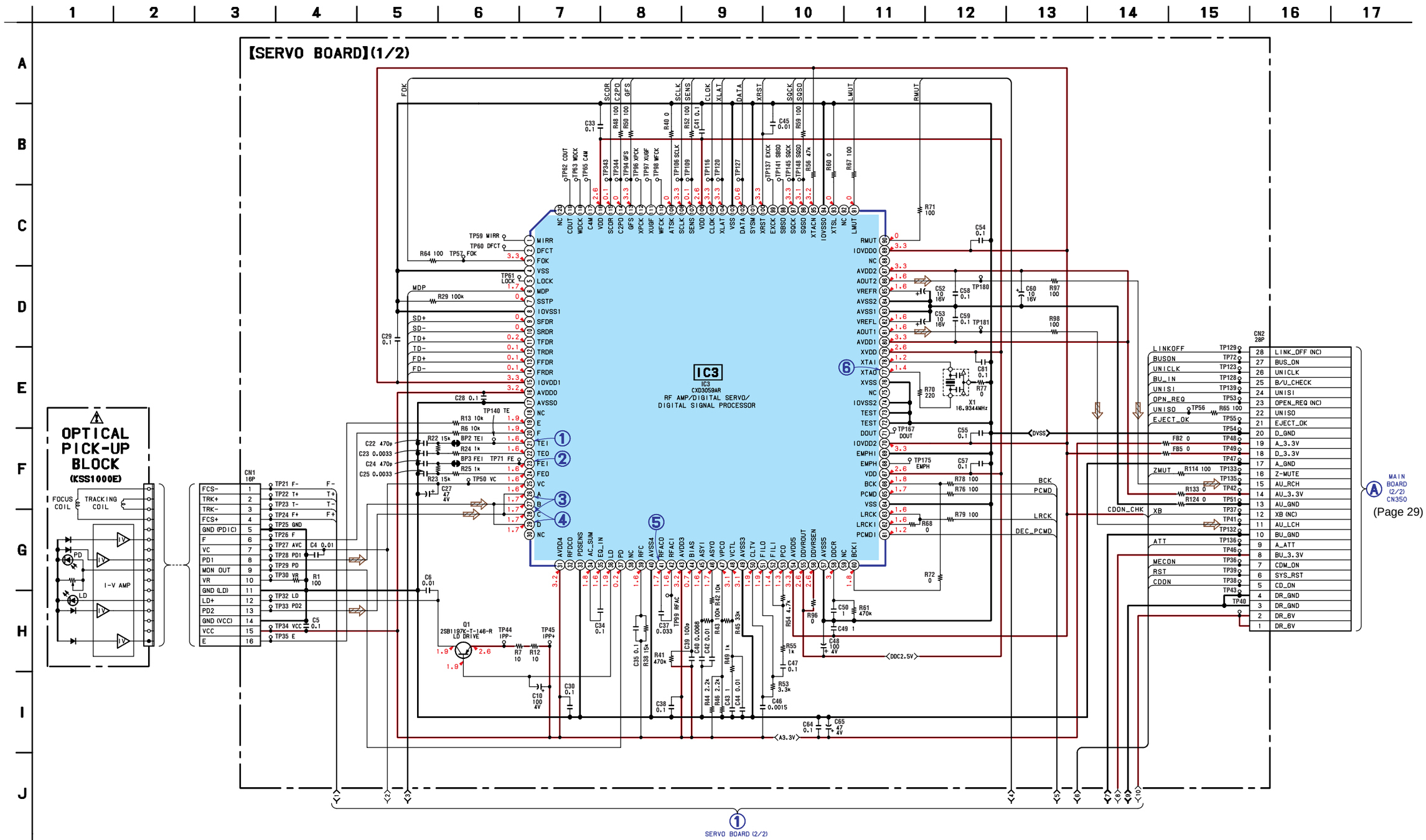
3-4. BLOCK DIAGRAM — DISPLAY SECTION —



3-5. CIRCUIT BOARDS LOCATION

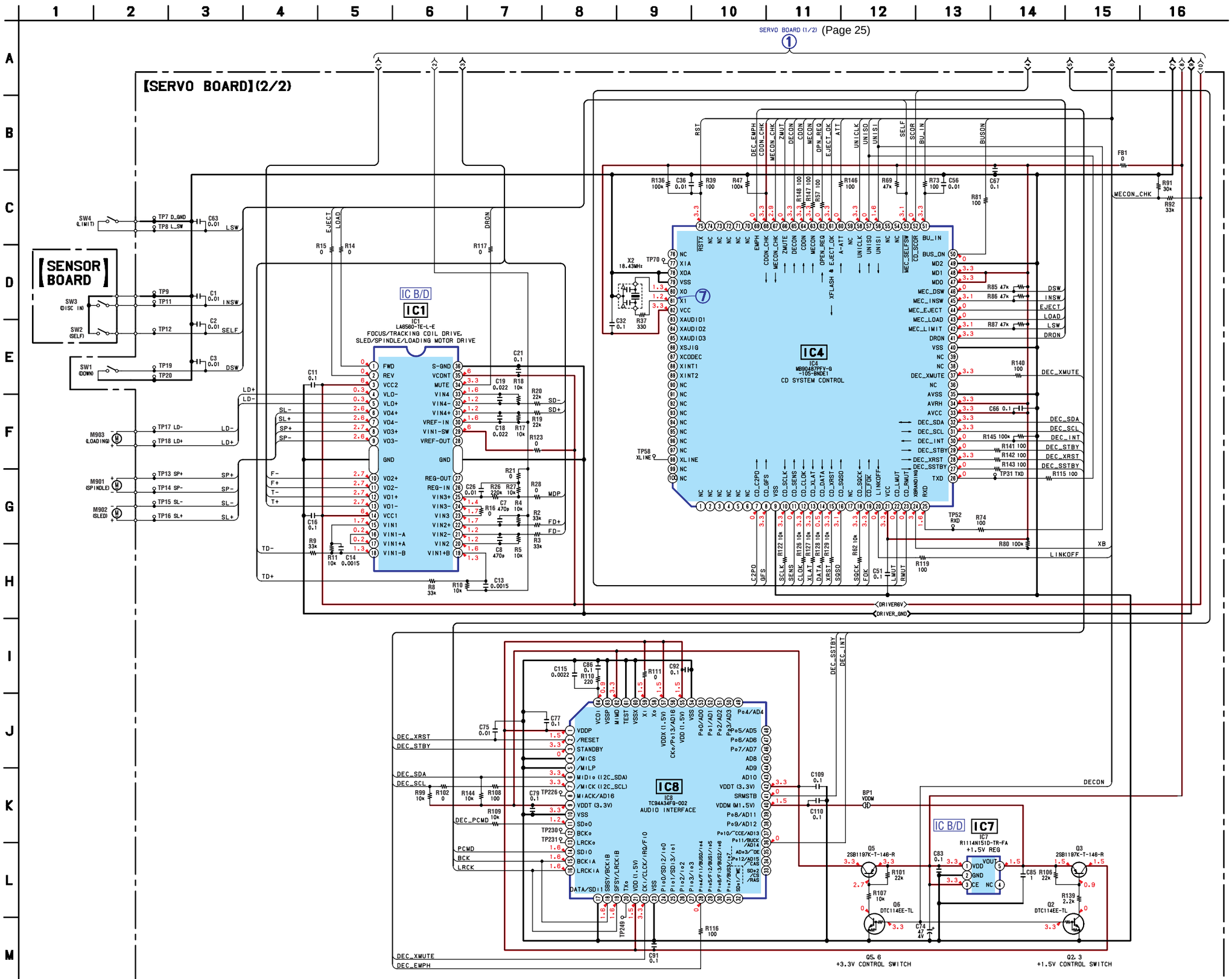


3-7. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (1/2) — • Refer to page 20 for Common Note on Schematic Diagram and Waveforms.



Note:
- Voltage is dc with respect to ground under no-signal conditions.
  no mark : CD PLAY

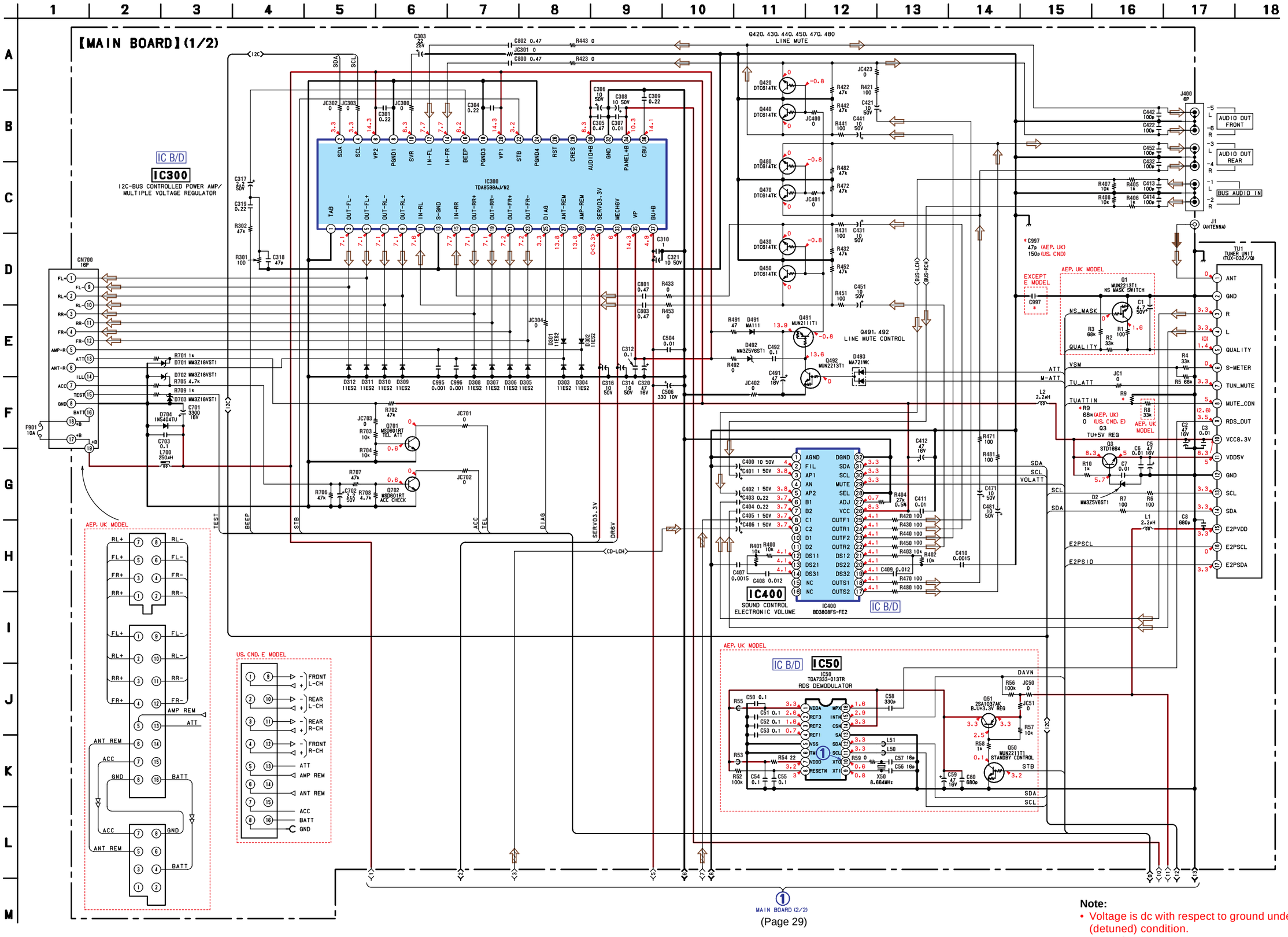
3-8. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (2/2) — • Refer to page 20 for Common Note on Schematic Diagram and Waveforms.
• Refer to page 33 for IC Block Diagrams.



Note:
- Voltage is dc with respect to ground under no-signal conditions.
  no mark : CD PLAY

3-10. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) —

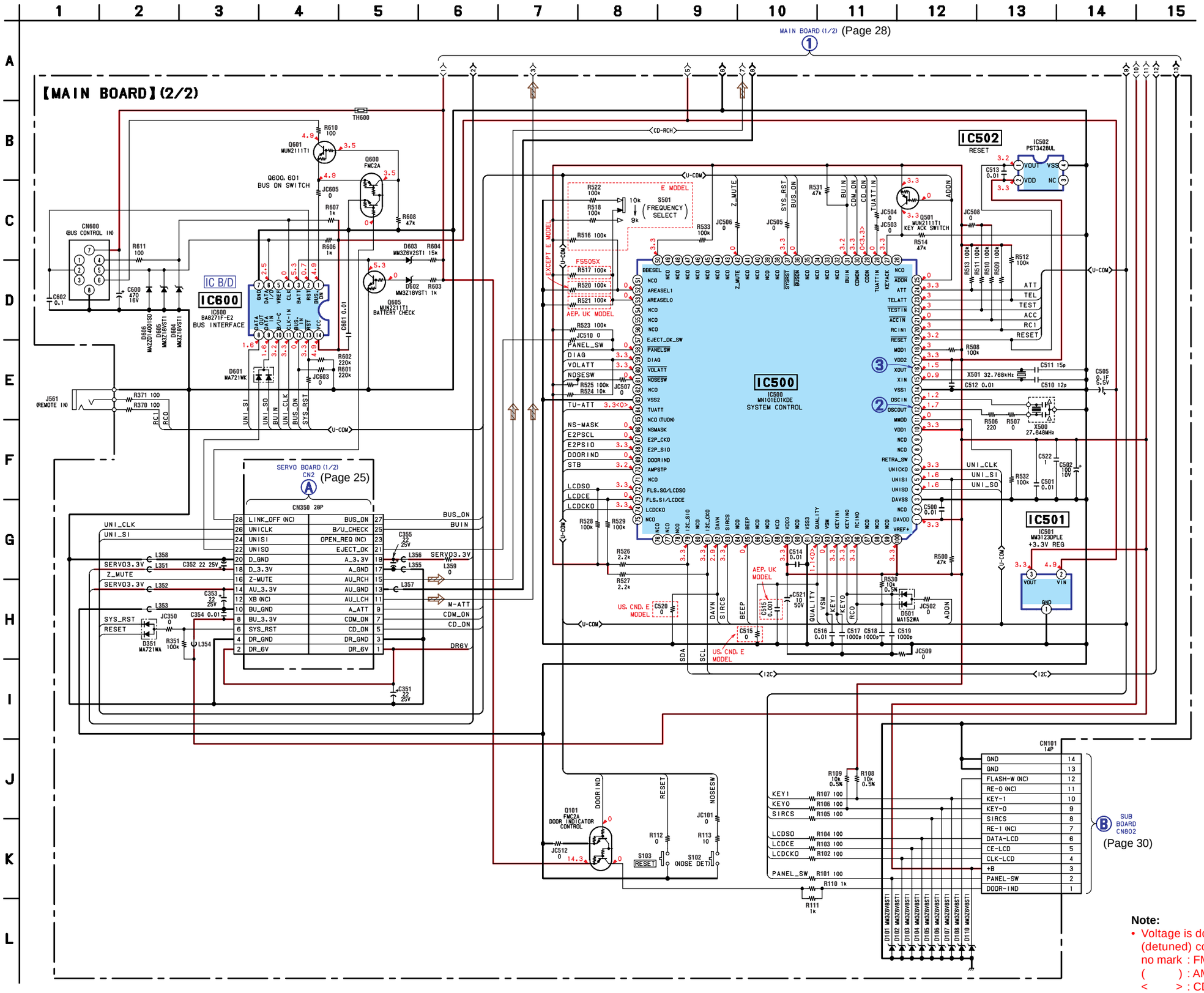
• Refer to page 20 for Common Note on Schematic Diagram and Waveforms.
• Refer to page 34 for IC Block Diagrams.



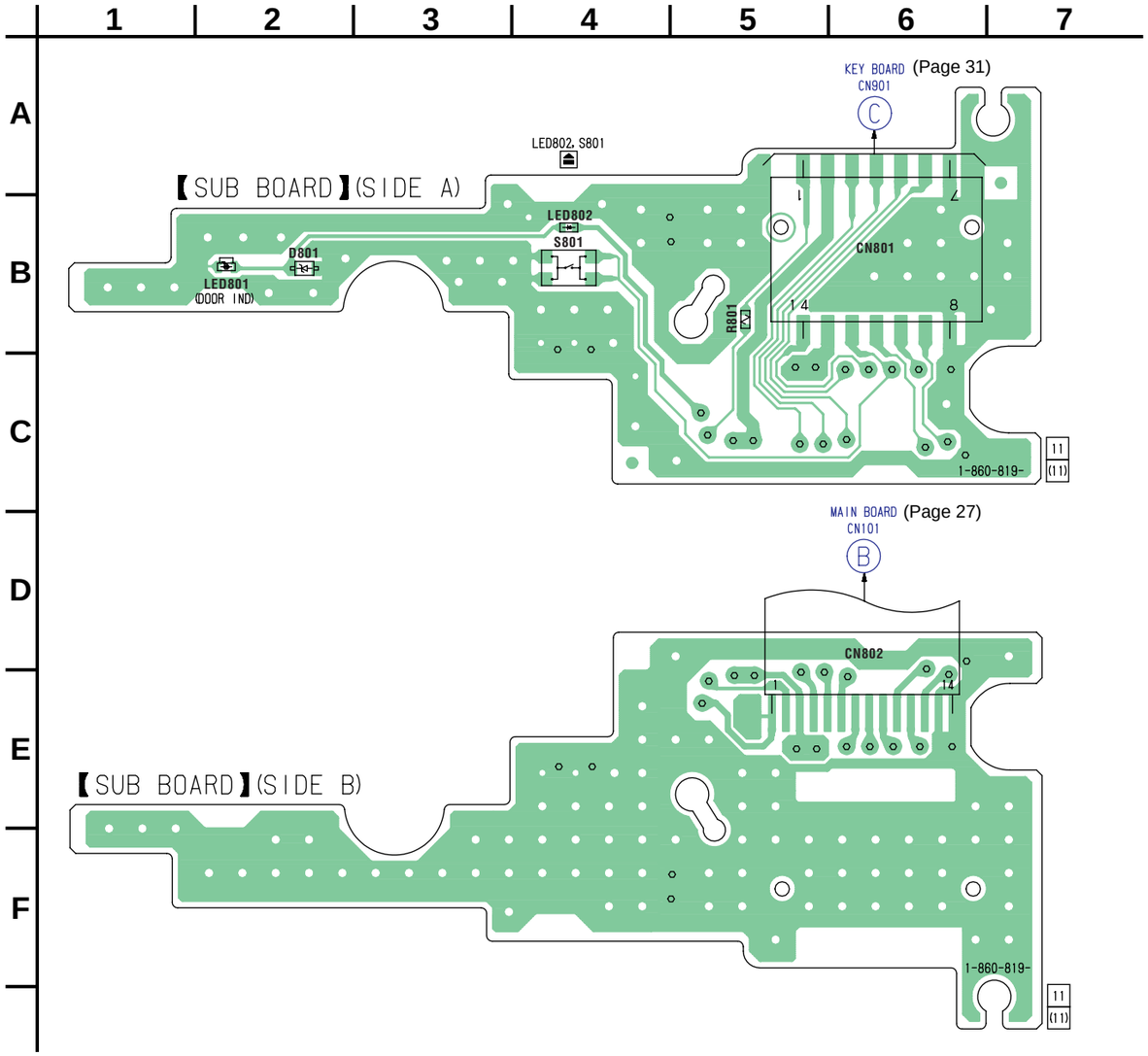
Note:

- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : AM or MW
  < > : CD PLAY

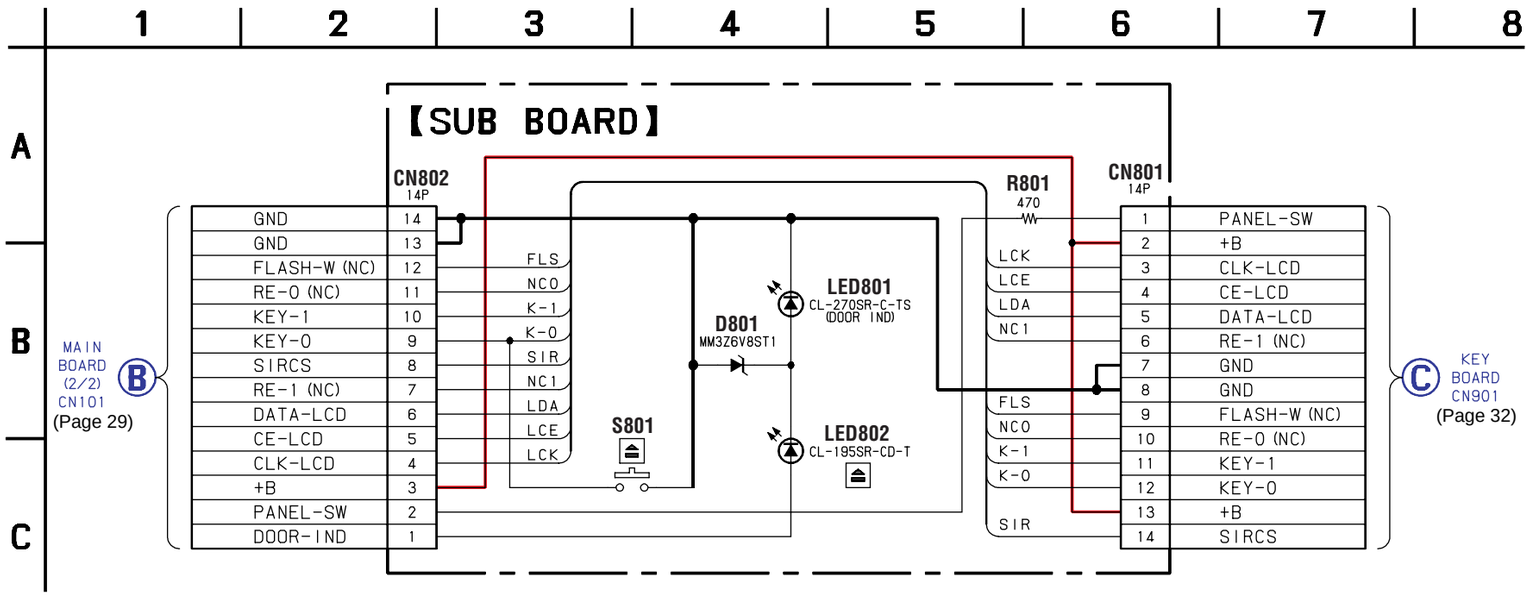
3-11. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) — • Refer to page 20 for Common Note on Schematic Diagram and Waveforms.



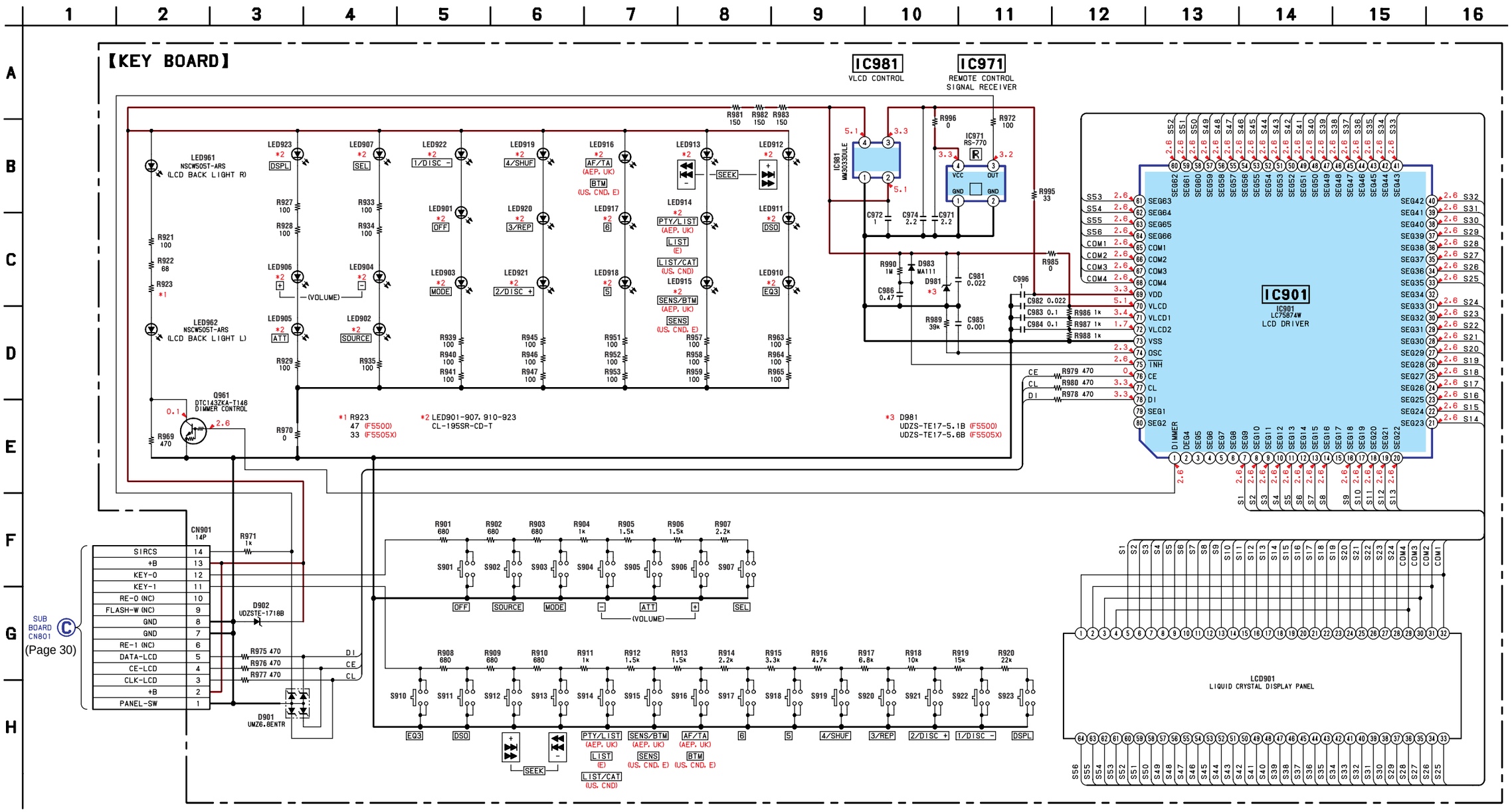
3-12. PRINTED WIRING BOARD — SUB SECTION — **• Refer to page 20 for Common Note on Printed Wiring Boards.** **: Uses unleaded solder.**



3-13. SCHEMATIC DIAGRAM — SUB SECTION — **• Refer to page 20 for Common Note on Schematic Diagram.**



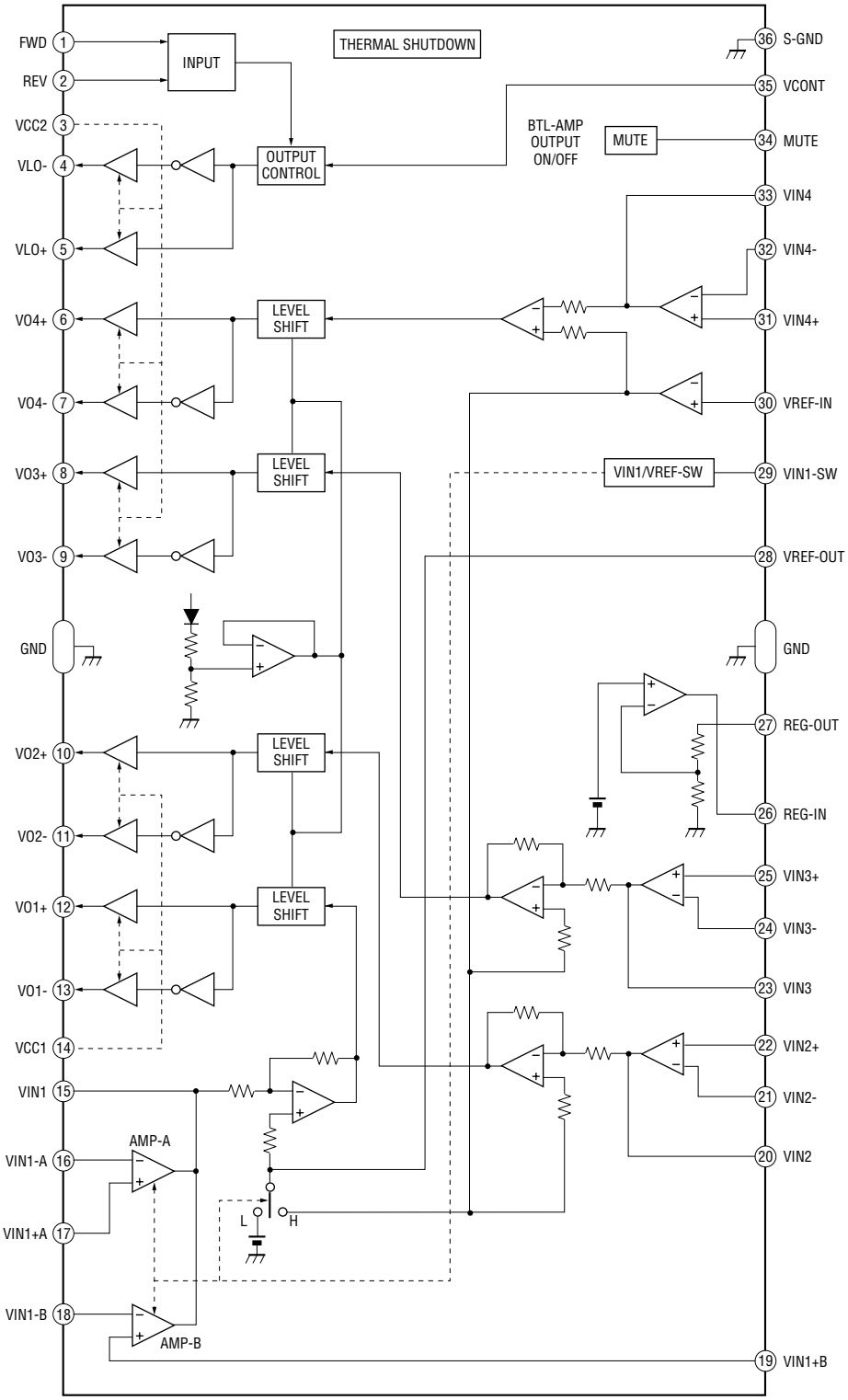
3-15. SCHEMATIC DIAGRAM — KEY SECTION — • Refer to page 20 for Common Note on Schematic Diagram.



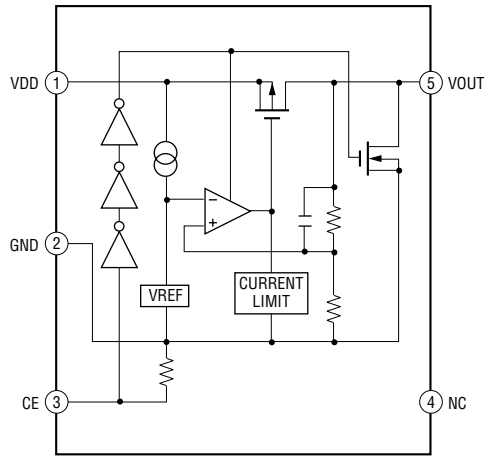
Note:
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM

3-16. IC BLOCK DIAGRAMS

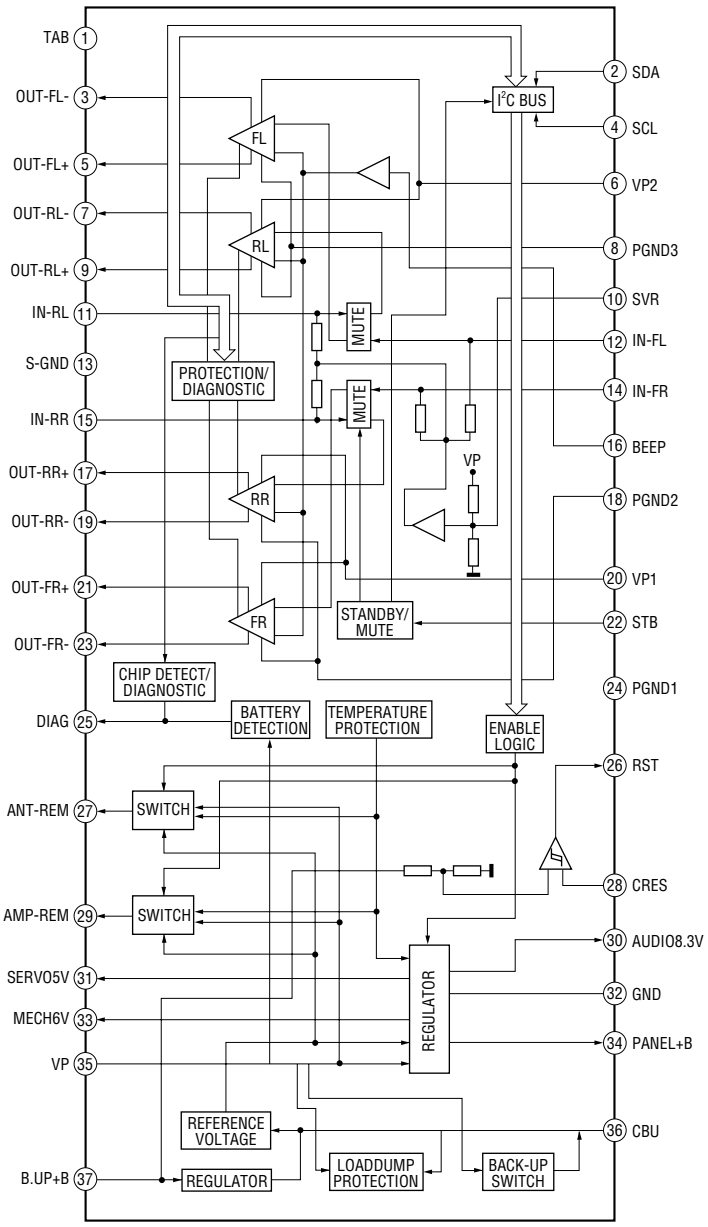
IC1 LA6560-TE-L-E



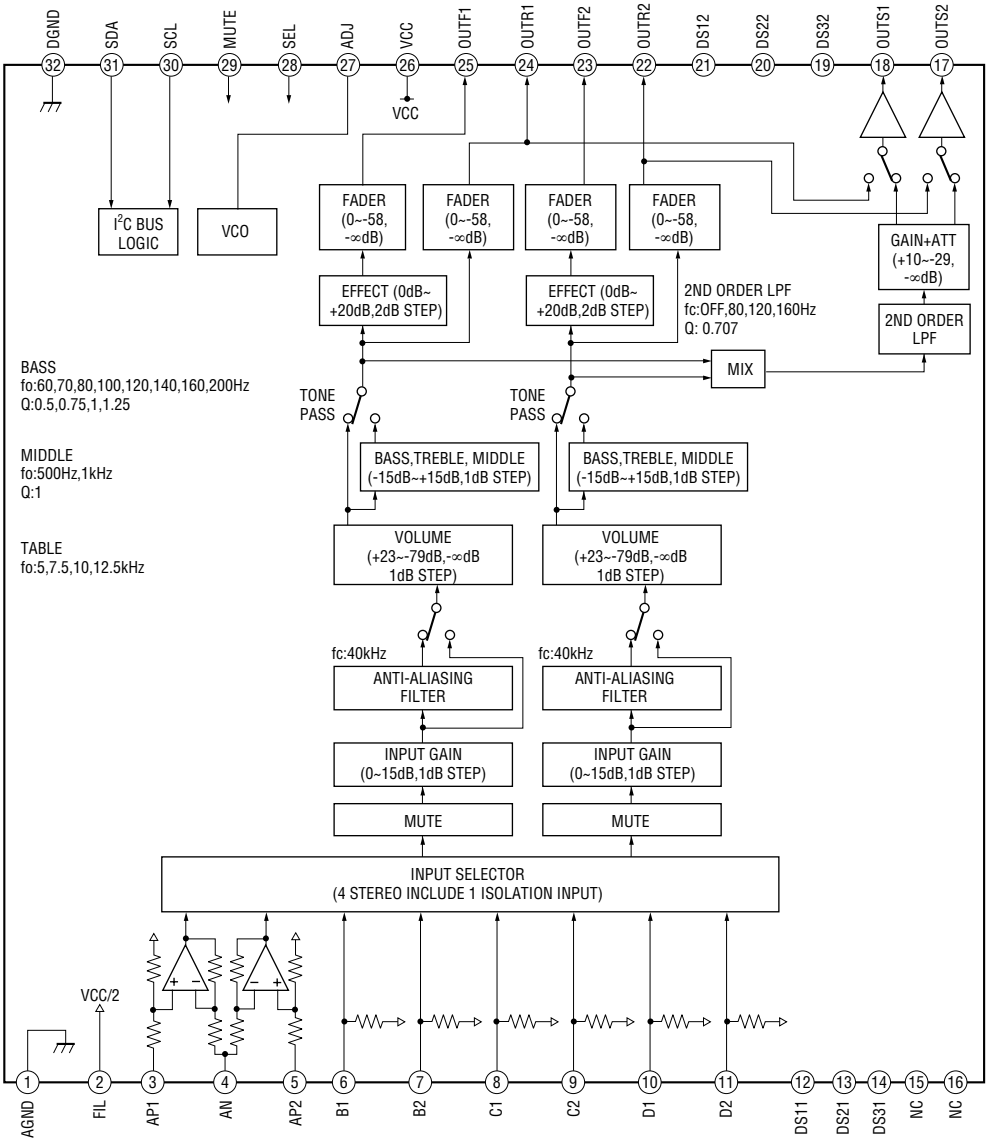
IC7 R1114N151D-TR-FA



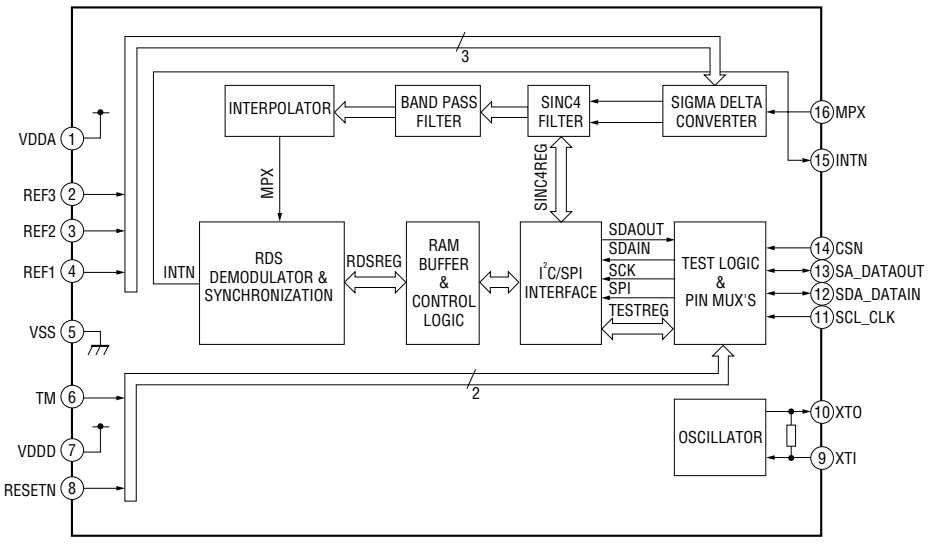
IC300 TDA8588BJ/N2



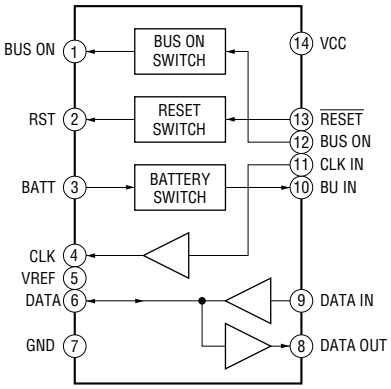
IC400 BD3808FS-FE2



IC50 TDA7333-013TR (AEP, UK model)



IC600 BA8271F-E2



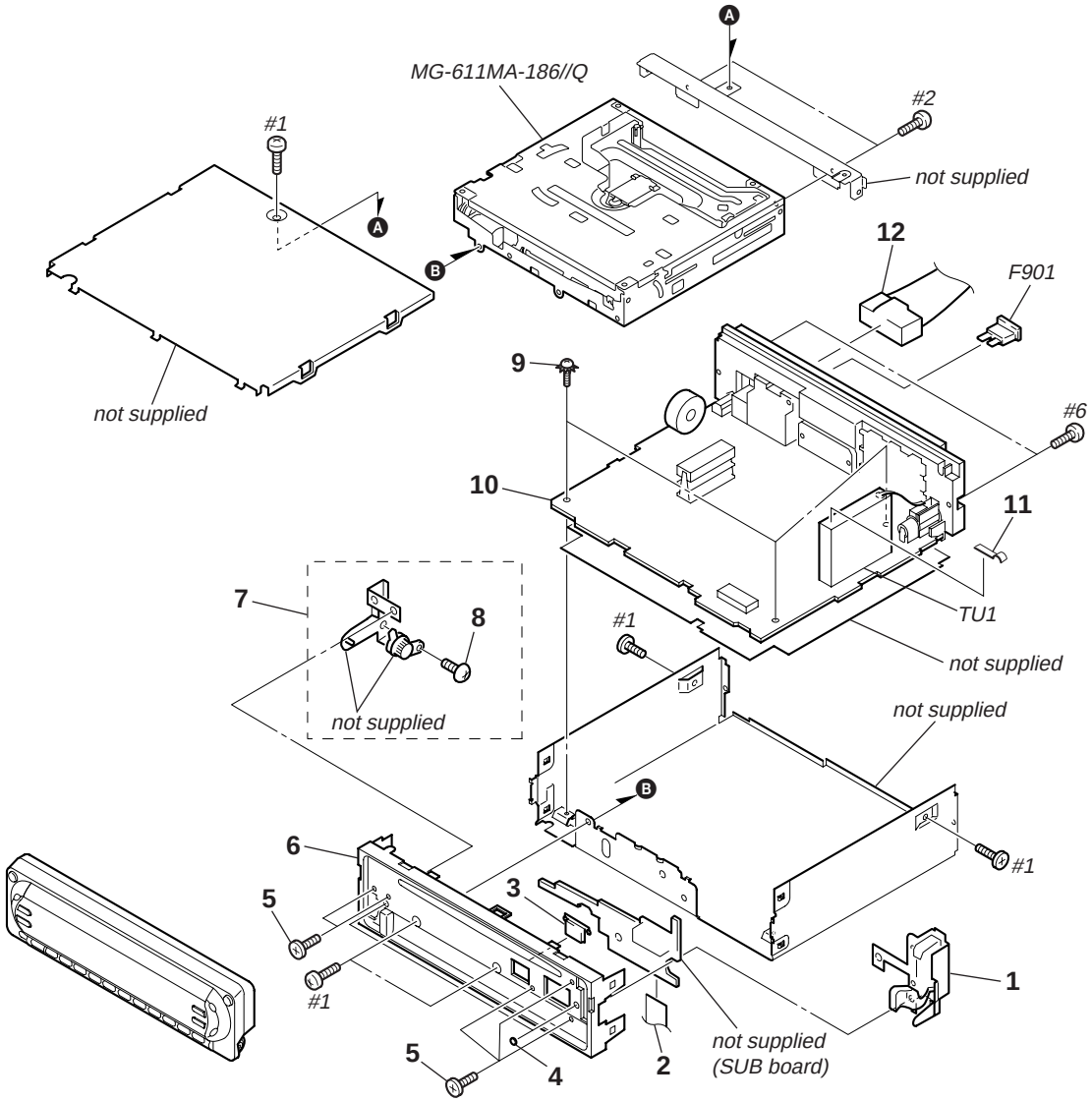
SECTION 4
EXPLODED VIEWS

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  Parts Color Cabinet's Color
- Accessories are given in the last of this parts list.
- Abbreviation
  CND : Canadian model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

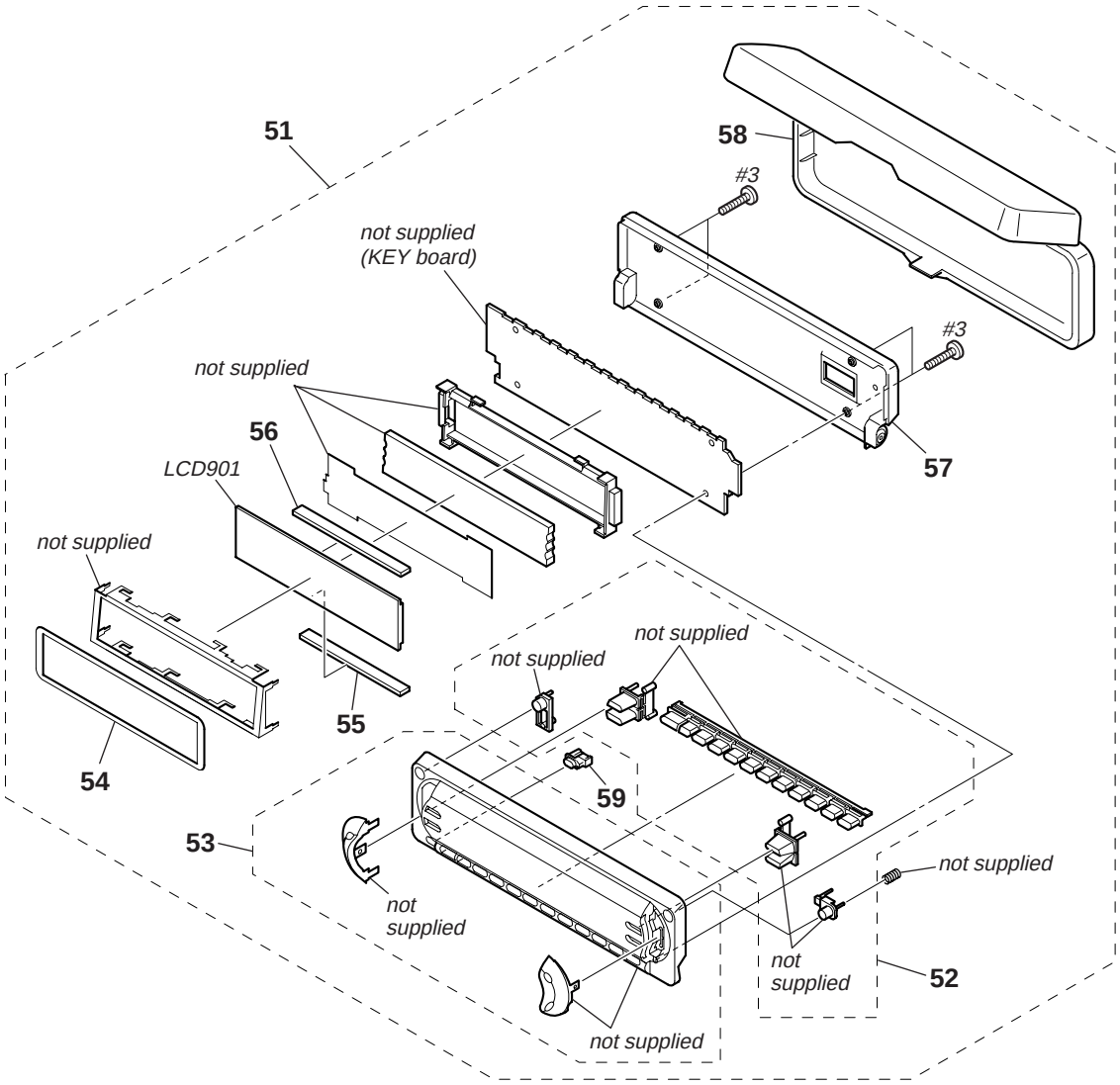
4-1. MAIN SECTION



Ref. No.	Part No.	Description	Remark
1	X-3384-259-1	LOCK ASSY	
2	1-792-195-11	CABLE, FLEXIBLE FLAT (14 CORE)	
3	3-246-441-01	BUTTON (EJECT)	
4	3-260-247-01	CUSHION (SUB PANEL)	
5	3-042-244-01	SCREW (T)	
6	X-3384-364-1	PANEL ASSY, SUB	
7	X-3384-203-1	GEAR ASSY	
8	3-713-786-51	SCREW +P 2X3	
9	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
10	A-3283-414-A	MAIN BOARD, COMPLETE (AEP,UK)	
10	A-3283-424-A	MAIN BOARD, COMPLETE (US,CND)	
10	A-3283-426-A	MAIN BOARD, COMPLETE (E)	

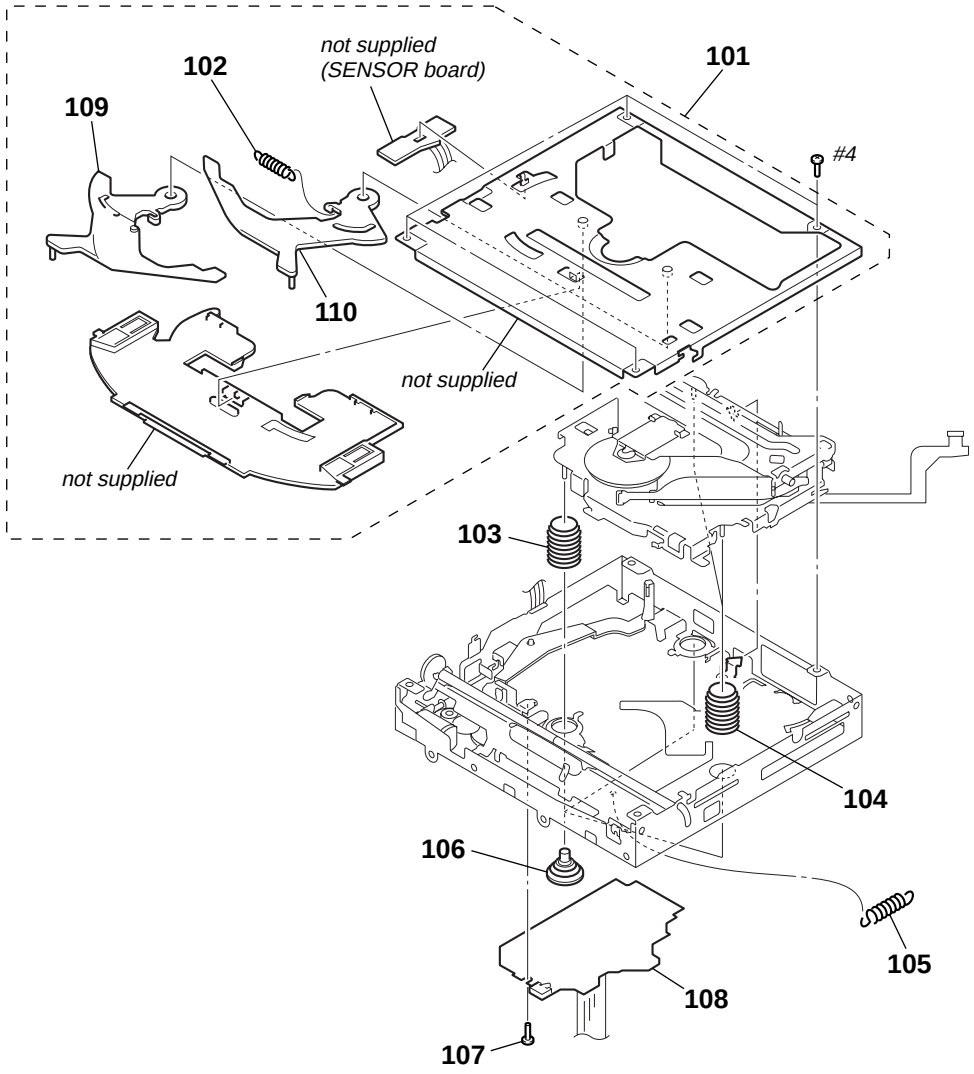
Ref. No.	Part No.	Description	Remark
11	3-246-481-01	PLATE (TU), GROUND	
12	1-776-207-82	CORD (WITH CONNECTOR) (POWER)	(US,CND,E)
12	1-776-527-61	CORD (WITH CONNECTOR) (ISO) (POWER)	(AEP,UK)
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
TU1	A-3220-959-A	TUNER UNIT (TUX-032//Q)	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#2	7-685-790-01	SCREW +PTT 2.6X4 (S)	
#6	7-685-793-09	SCREW +PTT 2.6X8 (S)	

4-2. FRONT PANEL SECTION



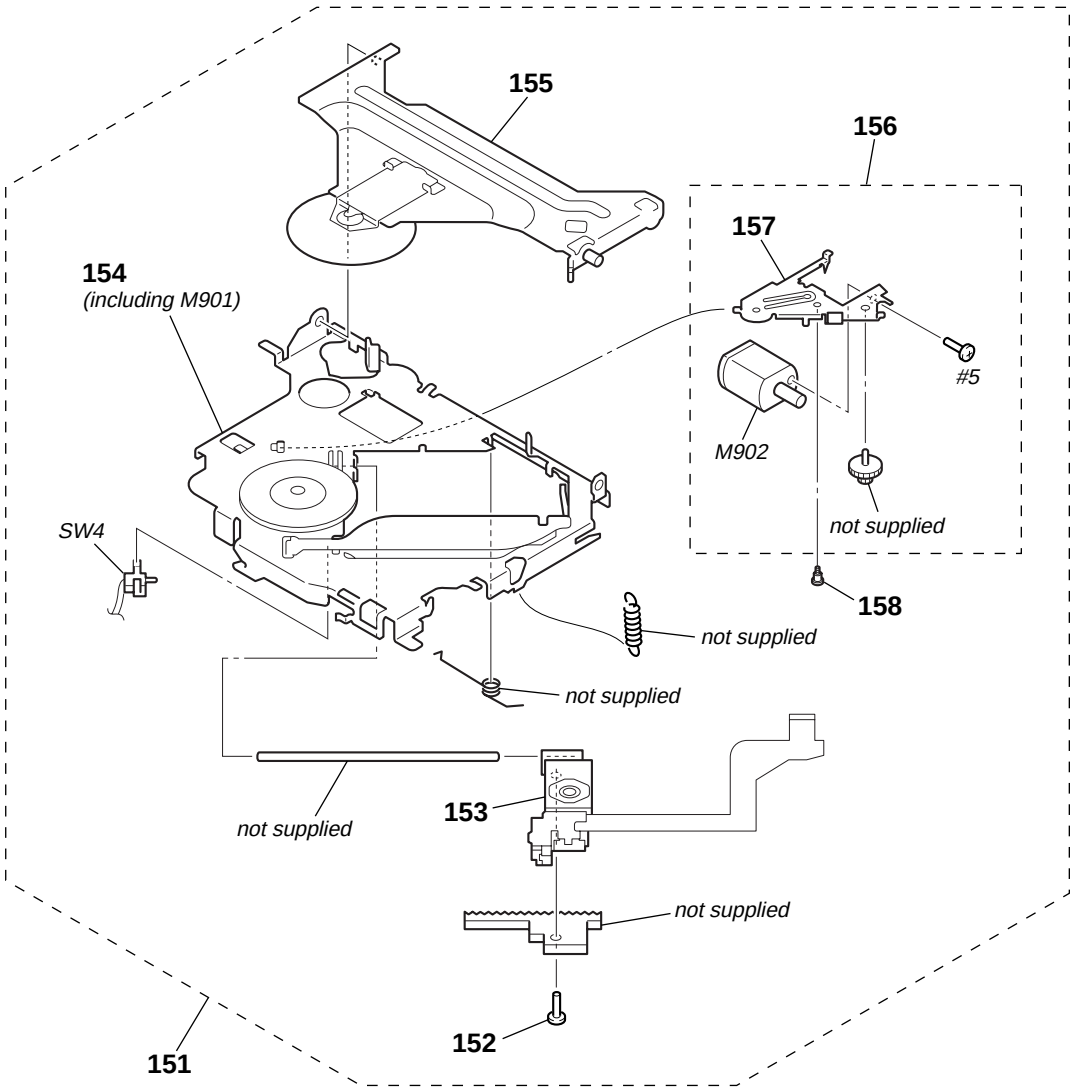
Ref. No.	Part No.	Description	Remark
51	A-3372-579-A	PANEL COMPLETE ASSY, FRONT (AEP,UK)	
51	A-3372-599-A	PANEL COMPLETE ASSY, FRONT (US,CND)	
51	A-3372-604-A	PANEL COMPLETE ASSY, FRONT (E)	
52	X-3384-452-1	BUTTON ASSY (S) (AEP,UK)	
52	X-3384-473-1	BUTTON ASSY (S) (US,CND)	
52	X-3384-475-1	BUTTON ASSY (S) (E)	
53	X-3384-453-1	PANEL (SV) ASSY, FRONT (AEP,UK)	
53	X-3384-474-1	PANEL (SV) ASSY, FRONT (US,CND)	
53	X-3384-476-1	PANEL (SV) ASSY, FRONT (E)	
54	3-260-250-01	CUSHION, DUST PROTECTION	
55	1-780-104-11	CONDUCTIVE BOARD, CONNECTION	
56	1-780-095-11	CONDUCTIVE BOARD, CONNECTION	
57	X-3384-367-1	PANEL ASSY, FRONT BACK	
58	X-3383-264-2	CASE ASSY (for FRONT PANEL)	
59	3-260-227-01	FILTER (IR)	
LCD901	1-805-452-11	DISPLAY PANEL, LIQUID CRYSTAL (F5505X)	
LCD901	1-805-453-11	DISPLAY PANEL, LIQUID CRYSTAL (F5500)	
#3	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT	

4-3. CD MECHANISM SECTION (1)
(MG-611MA-186//Q)



Ref. No.	Part No.	Description	Remark
101	A-3372-444-A	CHASSIS (T) SUB ASSY	
102	3-253-729-11	SPRING (LTR), TENSION COIL	
103	3-257-892-11	SPRING (DAMPER), COIL	
104	3-257-892-01	SPRING (DAMPER), COIL	
105	3-253-695-11	SPRING (KF), TENSION COIL	
106	3-259-033-01	DAMPER (S)	
107	3-352-758-31	SCREW (M1.7), TOOTHED LOCK	
108	A-3283-357-A	SERVO BOARD, COMPLETE	
109	X-3384-088-1	LEVER (L) ASSY	
110	X-3384-089-1	LEVER (R) ASSY	
#4	7-627-552-87	SCREW, PRECISION +P 1.7X2.2	

4-4. CD MECHANISM SECTION (2)
(MG-611MA-186//Q)

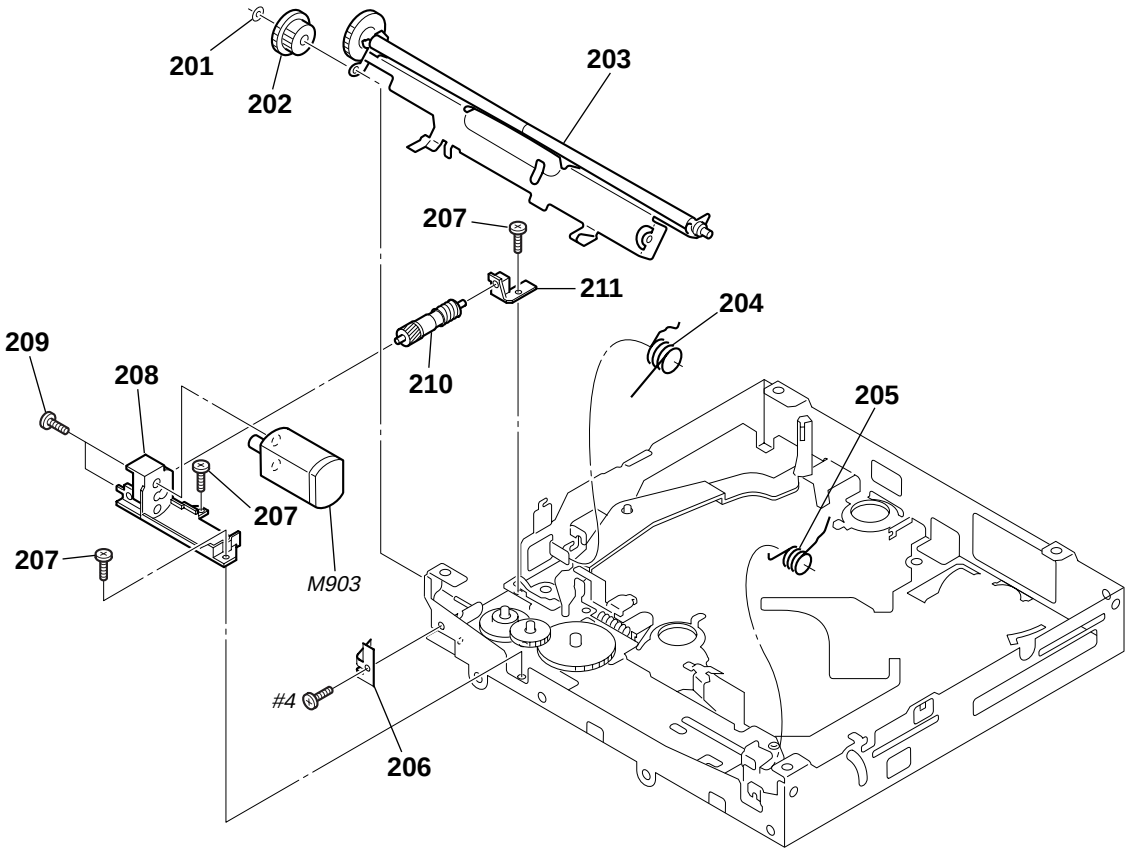


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
151	A-3372-445-A	CHASSIS (OP) COMPLETE ASSY	
152	3-316-938-91	SCREW (B1.4X5), TAPPING	
⚠153	8-820-207-02	OPTICAL PICK-UP KSS1000E/K1RP	
154	A-3372-448-A	CHASSIS (OP) SUB ASSY (including M901)	
155	A-3372-449-A	ARM SUB ASSY, CHUCKING	
156	A-3372-446-A	LEVER (SL) SUB ASSY	

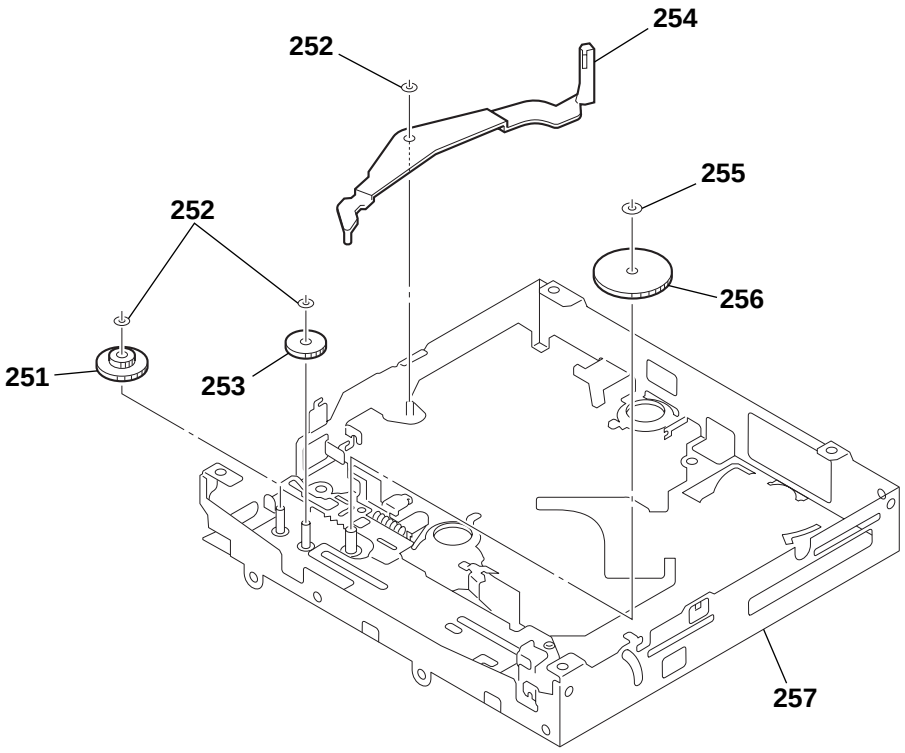
Ref. No.	Part No.	Description	Remark
157	X-3384-090-1	LEVER (SL) ASSY	
158	3-264-165-12	SCREW	
M902	A-3372-447-A	MOTOR ASSY, SL (SLED)	
SW4	1-571-099-11	SWITCH (1 KEY) (LIMIT)	
#5	7-627-850-77	SCREW, PRECISION +P 1.4X1.8	

4-5. CD MECHANISM SECTION (3)
(MG-611MA-186//Q)



Ref. No.	Part No.	Description	Remark
201	3-348-993-01	WASHER	
202	3-259-024-01	WHEEL (RA), WORM	
203	A-3372-441-A	ARM ASSY, ROLLER	
204	3-259-455-11	SPRING (RAL)	
205	3-253-713-11	SPRING (RAR)	
206	3-259-469-11	SPRING (LE), LEAF	
207	2-134-636-21	SCREW (M1.7X2.5)	
208	3-259-467-11	BRACKET (LEM)	
209	3-345-648-91	SCREW (M1.4), TOOTHED LOCK	
210	A-3372-450-A	WORM (LEB) ASSY	
211	3-259-468-11	BEARING (LEB)	
M903	A-3372-443-A	MOTOR ASSY, LE (LOADING)	
#4	7-627-552-87	SCREW, PRECISION +P 1.7X2.2	

4-6. CD MECHANISM SECTION (4)
(MG-611MA-186//Q)



Ref. No.	Part No.	Description	Remark
251	3-259-429-11	WHEEL (LE), WORM	
252	3-344-223-01	WASHER	
253	3-259-470-11	GEAR (LE1)	
254	3-253-755-11	LEVER (D)	
255	3-899-829-01	WASHER (SLIT)	
256	3-259-032-01	GEAR (LE2)	
257	A-3337-998-A	CHASSIS (M) BLOCK ASSY	

SECTION 5
ELECTRICAL PARTS LIST

KEY

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Abbreviation
  CND : Canadian model
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH

When indicating parts by reference number, please include the board.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
		KEY BOARD			
		**********			
	1-780-095-11	CONDUCTIVE BOARD, CONNECTION			
	1-780-104-11	CONDUCTIVE BOARD, CONNECTION			
		< CAPACITOR >			
C971	1-135-834-11	CERAMIC CHIP	2.2uF		6.3V
C972	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C974	1-135-834-11	CERAMIC CHIP	2.2uF		6.3V
C981	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C982	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C983	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C984	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C985	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C986	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C996	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
		< CONNECTOR >			
CN901	1-817-158-21	PLUG, CONNECTOR 14P			
		< DIODE >			
D901	8-719-085-72	DIODE UMZ6.8ENTR			
D902	8-719-083-66	DIODE UDZS-TE17-18B			
D981	8-719-069-54	DIODE UDZS-TE17-5.1B (F5500)			
D981	8-719-069-55	DIODE UDZS-TE17-5.6B (F5505X)			
D983	8-719-404-50	DIODE MA111-TX			
		< IC >			
IC901	8-759-826-21	IC LC75874W			
IC971	6-600-163-01	IC RS-770 (IR)			
IC981	6-705-374-01	IC MM3033DULE			
		< LIQUID CRYSTAL DISPLAY >			
LCD901	1-805-452-11	DISPLAY PANEL, LIQUID CRYSTAL (F5505X)			
LCD901	1-805-453-11	DISPLAY PANEL, LIQUID CRYSTAL (F5500)			
		< DIODE >			
LED901	6-500-450-01	LED CL-195SR-CD-T (OFF)			
LED902	6-500-450-01	LED CL-195SR-CD-T (SOURCE)			
LED903	6-500-450-01	LED CL-195SR-CD-T (MODE)			
LED904	6-500-450-01	LED CL-195SR-CD-T (– (VOLUME))			
LED905	6-500-450-01	LED CL-195SR-CD-T (ATT)			
LED906	6-500-450-01	LED CL-195SR-CD-T (+ (VOLUME))			
LED907	6-500-450-01	LED CL-195SR-CD-T (SEL)			

Ref. No.	Part No.	Description	Remark
LED910	6-500-450-01	LED CL-195SR-CD-T (EQ3)	
LED911	6-500-450-01	LED CL-195SR-CD-T (DSO)	
LED912	6-500-450-01	LED CL-195SR-CD-T (SEEK +/▶▶I/▶▶)	
LED913	6-500-450-01	LED CL-195SR-CD-T (SEEK –/I◀◀/◀◀)	
LED914	6-500-450-01	LED CL-195SR-CD-T (PTY/LIST) (AEP,UK)	
LED914	6-500-450-01	LED CL-195SR-CD-T (LIST) (E)	
LED914	6-500-450-01	LED CL-195SR-CD-T (LIST/CAT) (US,CND)	
LED915	6-500-450-01	LED CL-195SR-CD-T (SENS/BTM) (AEP,UK)	
LED915	6-500-450-01	LED CL-195SR-CD-T (SENS) (US,CND,E)	
LED916	6-500-450-01	LED CL-195SR-CD-T (AF/TA) (AEP,UK)	
LED916	6-500-450-01	LED CL-195SR-CD-T (BTM) (US,CND,E)	
LED917	6-500-450-01	LED CL-195SR-CD-T (6)	
LED918	6-500-450-01	LED CL-195SR-CD-T (5)	
LED919	6-500-450-01	LED CL-195SR-CD-T (4/SHUF)	
LED920	6-500-450-01	LED CL-195SR-CD-T (3/REP)	
LED921	6-500-450-01	LED CL-195SR-CD-T (2/DISC +)	
LED922	6-500-450-01	LED CL-195SR-CD-T (1/DISC –)	
LED923	6-500-450-01	LED CL-195SR-CD-T (DSPL)	
LED961	6-500-459-01	LED NSCW505T-ARS (LCD BACK LIGHT R)	
LED962	6-500-459-01	LED NSCW505T-ARS (LCD BACK LIGHT L)	
		< TRANSISTOR >	
Q961	8-729-027-58	TRANSISTOR DTC143ZKA-T146	
		< RESISTOR >	

R901	1-216-819-11	METAL CHIP	680	5%	1/10W
R902	1-216-819-11	METAL CHIP	680	5%	1/10W
R903	1-216-819-11	METAL CHIP	680	5%	1/10W
R904	1-216-821-11	METAL CHIP	1K	5%	1/10W
R905	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R906	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R907	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R908	1-216-819-11	METAL CHIP	680	5%	1/10W
R909	1-216-819-11	METAL CHIP	680	5%	1/10W
R910	1-216-819-11	METAL CHIP	680	5%	1/10W
R911	1-216-821-11	METAL CHIP	1K	5%	1/10W
R912	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R913	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R914	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R915	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R916	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R917	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R918	1-216-833-11	METAL CHIP	10K	5%	1/10W
R919	1-216-835-11	METAL CHIP	15K	5%	1/10W
R920	1-216-837-11	METAL CHIP	22K	5%	1/10W

KEY **MAIN**

Ref. No.	Part No.	Description			Remark
R921	1-216-809-11	METAL CHIP	100	5%	1/10W
R922	1-216-807-11	METAL CHIP	68	5%	1/10W
R923	1-216-803-11	METAL CHIP	33	5%	1/10W (F5505X)
R923	1-216-805-11	METAL CHIP	47	5%	1/10W (F5500)
R927	1-216-809-11	METAL CHIP	100	5%	1/10W
R928	1-216-809-11	METAL CHIP	100	5%	1/10W
R929	1-216-809-11	METAL CHIP	100	5%	1/10W
R933	1-216-809-11	METAL CHIP	100	5%	1/10W
R934	1-216-809-11	METAL CHIP	100	5%	1/10W
R935	1-216-809-11	METAL CHIP	100	5%	1/10W
R939	1-216-809-11	METAL CHIP	100	5%	1/10W
R940	1-216-809-11	METAL CHIP	100	5%	1/10W
R941	1-216-809-11	METAL CHIP	100	5%	1/10W
R945	1-216-809-11	METAL CHIP	100	5%	1/10W
R946	1-216-809-11	METAL CHIP	100	5%	1/10W
R947	1-216-809-11	METAL CHIP	100	5%	1/10W
R951	1-216-809-11	METAL CHIP	100	5%	1/10W
R952	1-216-809-11	METAL CHIP	100	5%	1/10W
R953	1-216-809-11	METAL CHIP	100	5%	1/10W
R957	1-216-809-11	METAL CHIP	100	5%	1/10W
R958	1-216-809-11	METAL CHIP	100	5%	1/10W
R959	1-216-809-11	METAL CHIP	100	5%	1/10W
R963	1-216-809-11	METAL CHIP	100	5%	1/10W
R964	1-216-809-11	METAL CHIP	100	5%	1/10W
R965	1-216-809-11	METAL CHIP	100	5%	1/10W
R969	1-216-817-11	METAL CHIP	470	5%	1/10W
R970	1-216-864-11	METAL CHIP	0	5%	1/10W
R971	1-216-821-11	METAL CHIP	1K	5%	1/10W
R972	1-216-809-11	METAL CHIP	100	5%	1/10W
R975	1-216-817-11	METAL CHIP	470	5%	1/10W
R976	1-216-817-11	METAL CHIP	470	5%	1/10W
R977	1-216-817-11	METAL CHIP	470	5%	1/10W
R978	1-216-817-11	METAL CHIP	470	5%	1/10W
R979	1-216-817-11	METAL CHIP	470	5%	1/10W
R980	1-216-817-11	METAL CHIP	470	5%	1/10W
R981	1-216-811-11	METAL CHIP	150	5%	1/10W
R982	1-216-811-11	METAL CHIP	150	5%	1/10W
R983	1-216-811-11	METAL CHIP	150	5%	1/10W
R985	1-216-864-11	METAL CHIP	0	5%	1/10W
R986	1-216-821-11	METAL CHIP	1K	5%	1/10W
R987	1-216-821-11	METAL CHIP	1K	5%	1/10W
R988	1-216-821-11	METAL CHIP	1K	5%	1/10W
R989	1-216-840-11	METAL CHIP	39K	5%	1/10W
R990	1-216-857-11	METAL CHIP	1M	5%	1/10W
R995	1-216-803-11	METAL CHIP	33	5%	1/10W
R996	1-216-864-11	METAL CHIP	0	5%	1/10W
		< SWITCH >			
S901	1-771-884-31	SWITCH, TACTILE (OFF)			
S902	1-771-884-31	SWITCH, TACTILE (SOURCE)			
S903	1-771-884-31	SWITCH, TACTILE (MODE)			
S904	1-771-884-31	SWITCH, TACTILE (– (VOLUME))			
S905	1-771-884-31	SWITCH, TACTILE (ATT)			
S906	1-771-884-31	SWITCH, TACTILE (+ (VOLUME))			
S907	1-771-884-31	SWITCH, TACTILE (SEL)			
S910	1-771-884-31	SWITCH, TACTILE (EQ3)			
S911	1-771-884-31	SWITCH, TACTILE (DSO)			
S912	1-771-884-31	SWITCH, TACTILE (SEEK +/▶▶I/▶▶)			
S913	1-771-884-31	SWITCH, TACTILE (SEEK –/I◀◀/◀◀)			
S914	1-771-884-31	SWITCH, TACTILE (PTY/LIST) (AEP,UK)			
S914	1-771-884-31	SWITCH, TACTILE (LIST) (E)			
S914	1-771-884-31	SWITCH, TACTILE (LIST/CAT) (US,CND)			
S915	1-771-884-31	SWITCH, TACTILE (SENS/BTM) (AEP,UK)			
S915	1-771-884-31	SWITCH, TACTILE (SENS) (US,CND,E)			
S916	1-771-884-31	SWITCH, TACTILE (AF/TA) (AEP,UK)			
S916	1-771-884-31	SWITCH, TACTILE (BTM) (US,CND,E)			
S917	1-771-884-31	SWITCH, TACTILE (6)			
S918	1-771-884-31	SWITCH, TACTILE (5)			
S919	1-771-884-31	SWITCH, TACTILE (4/SHUF)			
S920	1-771-884-31	SWITCH, TACTILE (3/REP)			
S921	1-771-884-31	SWITCH, TACTILE (2/DISC +)			
S922	1-771-884-31	SWITCH, TACTILE (1/DISC –)			
S923	1-771-884-31	SWITCH, TACTILE (DSPL)			
**********					
	A-3283-414-A	MAIN BOARD, COMPLETE (AEP,UK)			
	A-3283-424-A	MAIN BOARD, COMPLETE (US,CND)			
	A-3283-426-A	MAIN BOARD, COMPLETE (E)			
		**********			
	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT			
	7-685-793-09	SCREW +PTT 2.6X8 (S)			
	7-685-795-09	SCREW +PTT 2.6X12 (S)			
		< CAPACITOR >			
C1	1-126-963-11	ELECT	4.7uF	20%	50V (AEP,UK)
C2	1-126-947-11	ELECT	47uF	20%	16V
C3	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5	1-126-947-11	ELECT	47uF	20%	16V
C6	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C7	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C8	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C50	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (AEP,UK)
C51	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (AEP,UK)
C52	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (AEP,UK)
C53	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (AEP,UK)
C54	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (AEP,UK)
C55	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (AEP,UK)
C56	1-164-237-11	CERAMIC CHIP	16PF	5%	50V (AEP,UK)
C57	1-164-237-11	CERAMIC CHIP	16PF	5%	50V (AEP,UK)
C58	1-162-959-11	CERAMIC CHIP	330PF	5%	50V (AEP,UK)
C59	1-126-947-11	ELECT	47uF	20%	16V (AEP,UK)
C60	1-115-412-11	CERAMIC CHIP	680PF	5%	25V (AEP,UK)
C301	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C303	1-128-551-11	ELECT	22uF	20%	25V

Ref. No.	Part No.	Description			Remark
C304	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C305	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C306	1-126-964-11	ELECT	10uF	20%	50V
C307	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C308	1-126-964-11	ELECT	10uF	20%	50V
C309	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C310	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C312	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C314	1-126-964-11	ELECT	10uF	20%	50V
C316	1-126-964-11	ELECT	10uF	20%	50V
C317	1-126-961-11	ELECT	2.2uF	20%	50V
C318	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C319	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C320	1-126-947-11	ELECT	47uF	20%	16V
C321	1-126-964-11	ELECT	10uF	20%	50V
C351	1-128-551-11	ELECT	22uF	20%	25V
C352	1-128-551-11	ELECT	22uF	20%	25V
C353	1-128-551-11	ELECT	22uF	20%	25V
C354	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C355	1-128-551-11	ELECT	22uF	20%	25V
C400	1-126-964-11	ELECT	10uF	20%	50V
C401	1-126-960-11	ELECT	1uF	20%	50V
C402	1-126-960-11	ELECT	1uF	20%	50V
C403	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C404	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C405	1-126-960-11	ELECT	1uF	20%	50V
C406	1-126-960-11	ELECT	1uF	20%	50V
C407	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C408	1-136-154-00	FILM	0.012uF	5%	50V
C409	1-136-154-00	FILM	0.012uF	5%	50V
C410	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C411	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C412	1-126-947-11	ELECT	47uF	20%	16V
C413	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C414	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C421	1-126-964-11	ELECT	10uF	20%	50V
C422	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C431	1-126-964-11	ELECT	10uF	20%	50V
C432	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C441	1-126-964-11	ELECT	10uF	20%	50V
C442	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C451	1-126-964-11	ELECT	10uF	20%	50V
C452	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C471	1-126-964-11	ELECT	10uF	20%	50V
C481	1-126-964-11	ELECT	10uF	20%	50V
C491	1-126-947-11	ELECT	47uF	20%	16V
C492	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C500	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C501	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C502	1-104-665-11	ELECT	100uF	20%	10V
C504	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C505	1-125-710-11	DOUBLE LAYERS	0.1F		5.5V
C506	1-126-924-11	ELECT	330uF	20%	10V
C510	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C511	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C512	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C513	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C514	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C515	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (AEP,UK)
C515	1-216-864-11	METAL CHIP	0	5%	1/10W (US,CND,E)
C516	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C517	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C518	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C519	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C520	1-216-864-11	METAL CHIP	0	5%	1/10W (US,CND,E)
C521	1-126-964-11	ELECT	10uF	20%	50V
C522	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C600	1-126-935-11	ELECT	470uF	20%	16V
C601	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C602	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C701	1-131-868-81	ELECT	3300uF	20%	16V
C702	1-126-961-11	ELECT	2.2uF	20%	50V
C703	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C800	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C801	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C802	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C803	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C995	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C996	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C997	1-162-923-11	CERAMIC CHIP	47PF	5%	50V (AEP,UK)
C997	1-164-217-11	CERAMIC CHIP	150PF	5%	50V (US,CND)

< CONNECTOR >

CN101	1-784-456-11	CONNECTOR, FFC/FPC 14P
CN350	1-817-536-11	CONNECTOR, BOARD TO BOARD 28P
CN600	1-580-907-41	PLUG, CONNECTOR 8P (BUS CONTROL IN)
CN700	1-774-701-21	PIN, CONNECTOR 16P

< DIODE >

D2	8-719-036-94	DIODE RD5.6SB-T1
D101	8-719-056-83	DIODE UDZ-TE-17-6.8B
D102	8-719-056-83	DIODE UDZ-TE-17-6.8B
D103	8-719-056-83	DIODE UDZ-TE-17-6.8B
D104	8-719-056-83	DIODE UDZ-TE-17-6.8B
D105	8-719-056-83	DIODE UDZ-TE-17-6.8B
D106	8-719-056-83	DIODE UDZ-TE-17-6.8B
D107	8-719-056-83	DIODE UDZ-TE-17-6.8B
D108	8-719-056-83	DIODE UDZ-TE-17-6.8B
D110	8-719-056-83	DIODE UDZ-TE-17-6.8B
D301	8-719-200-82	DIODE 11ES2
D302	8-719-200-82	DIODE 11ES2
D303	8-719-200-82	DIODE 11ES2
D304	8-719-200-82	DIODE 11ES2
D305	8-719-200-82	DIODE 11ES2
D306	8-719-200-82	DIODE 11ES2
D307	8-719-200-82	DIODE 11ES2
D308	8-719-200-82	DIODE 11ES2
D309	8-719-200-82	DIODE 11ES2
D310	8-719-200-82	DIODE 11ES2
D311	8-719-200-82	DIODE 11ES2
D312	8-719-200-82	DIODE 11ES2
D351	8-719-041-79	DIODE MA721WA-TX

MAIN

Ref. No.	Part No.	Description	Remark
D491	8-719-404-50	DIODE MA111-TX	
D492	8-719-036-94	DIODE RD5.6SB-T1	
D493	8-719-040-04	DIODE MA721WK-(TX)	
D501	8-719-820-05	DIODE 1SS181	
D601	8-719-040-04	DIODE MA721WK-(TX)	
D602	8-719-056-93	DIODE UDZ-TE-17-18B	
D603	8-719-056-82	DIODE UDZ-TE-17-6.2B	
D604	8-719-056-93	DIODE UDZ-TE-17-18B	
D605	8-719-056-93	DIODE UDZ-TE-17-18B	
D606	8-719-072-70	DIODE MA2ZD14001SO	
D701	8-719-056-93	DIODE UDZ-TE-17-18B	
D702	8-719-056-93	DIODE UDZ-TE-17-18B	
D703	8-719-056-93	DIODE UDZ-TE-17-18B	
D704	8-719-049-38	DIODE 1N5404TU	
		< IC >	
IC50	6-803-747-01	IC TDA7333-013TR (AEP,UK)	
IC300	6-705-359-01	IC TDA8588AJ/N2	
IC400	6-705-372-01	IC BD3808FS-FE2	
IC500	6-803-739-01	IC MN101E01KDE	
IC501	6-705-373-01	IC MM3123DPLE	
IC502	8-759-659-13	IC PST3428UL	
IC600	6-703-884-01	IC BA8271F-E2	
		< JACK >	
J1	1-815-185-13	JACK (ANTENNA)	
J400	1-774-700-11	JACK, PIN 6P (BUS AUDIO IN, AUDIO OUT REAR/FRONT)	
J561	1-566-822-41	JACK (REMOTE IN)	
		< JUMPER RESISTOR >	
JC1	1-216-296-11	SHORT CHIP 0	
JC50	1-216-864-11	METAL CHIP 0 5%	1/10W (AEP,UK)
JC51	1-216-864-11	METAL CHIP 0 5%	1/10W (AEP,UK)
JC101	1-216-296-11	SHORT CHIP 0	
JC300	1-216-296-11	SHORT CHIP 0	
JC301	1-216-296-11	SHORT CHIP 0	
JC302	1-216-296-11	SHORT CHIP 0	
JC303	1-216-296-11	SHORT CHIP 0	
JC304	1-216-864-11	METAL CHIP 0 5%	1/10W
JC350	1-216-296-11	SHORT CHIP 0	
JC400	1-216-864-11	METAL CHIP 0 5%	1/10W
JC401	1-216-296-11	SHORT CHIP 0	
JC402	1-216-864-11	METAL CHIP 0 5%	1/10W
JC423	1-216-864-11	METAL CHIP 0 5%	1/10W
JC502	1-216-296-11	SHORT CHIP 0	
JC503	1-216-864-11	METAL CHIP 0 5%	1/10W
JC504	1-216-296-11	SHORT CHIP 0	
JC505	1-216-296-11	SHORT CHIP 0	
JC506	1-216-296-11	SHORT CHIP 0	
JC507	1-216-864-11	METAL CHIP 0 5%	1/10W
JC508	1-216-296-11	SHORT CHIP 0	
JC509	1-216-864-11	METAL CHIP 0 5%	1/10W
JC510	1-216-864-11	METAL CHIP 0 5%	1/10W
JC512	1-216-296-11	SHORT CHIP 0	
JC603	1-216-864-11	METAL CHIP 0 5%	1/10W
JC605	1-216-296-11	SHORT CHIP 0	
JC701	1-216-864-11	METAL CHIP 0 5%	1/10W
JC702	1-216-296-11	SHORT CHIP 0	
JC703	1-216-296-11	SHORT CHIP 0	
		< COIL >	
L1	1-469-844-11	INDUCTOR 2.2uH	
L2	1-469-844-11	INDUCTOR 2.2uH	
L50	1-414-595-11	INDUCTOR, FERRITE BEAD (AEP,UK)	
L51	1-414-595-11	INDUCTOR, FERRITE BEAD (AEP,UK)	
L351	1-500-245-11	INDUCTOR, FERRITE BEAD	
L352	1-500-245-11	INDUCTOR, FERRITE BEAD	
L353	1-469-876-11	INDUCTOR, FERRITE BEAD	
L354	1-500-245-11	INDUCTOR, FERRITE BEAD	
L355	1-469-876-11	INDUCTOR, FERRITE BEAD	
L356	1-500-245-11	INDUCTOR, FERRITE BEAD	
L357	1-469-876-11	INDUCTOR, FERRITE BEAD	
L358	1-469-876-11	INDUCTOR, FERRITE BEAD	
L359	1-216-295-11	SHORT CHIP 0	
L700	1-456-617-11	COIL, CHOKE 250uH	
		< TRANSISTOR >	
Q1	8-729-421-19	TRANSISTOR UN2213 (AEP,UK)	
Q3	8-729-920-85	TRANSISTOR 2SD1664-QR	
Q50	8-729-421-22	TRANSISTOR UN2211 (AEP,UK)	
Q51	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R (AEP,UK)	
Q101	8-729-047-76	TRANSISTOR FMC2A-T148	
Q420	6-550-752-01	TRANSISTOR DTC614TKT146	
Q430	6-550-752-01	TRANSISTOR DTC614TKT146	
Q440	6-550-752-01	TRANSISTOR DTC614TKT146	
Q450	6-550-752-01	TRANSISTOR DTC614TKT146	
Q470	6-550-752-01	TRANSISTOR DTC614TKT146	
Q480	6-550-752-01	TRANSISTOR DTC614TKT146	
Q491	8-729-424-08	TRANSISTOR UN2111	
Q492	8-729-421-19	TRANSISTOR UN2213	
Q501	8-729-424-08	TRANSISTOR UN2111	
Q600	8-729-047-76	TRANSISTOR FMC2A-T148	
Q601	8-729-424-08	TRANSISTOR UN2111	
Q605	8-729-421-22	TRANSISTOR UN2211	
Q701	8-729-010-25	TRANSISTOR MSD601-RT1	
Q702	8-729-010-25	TRANSISTOR MSD601-RT1	
		< RESISTOR >	
R1	1-216-809-11	METAL CHIP 100 5%	1/10W (AEP,UK)
R2	1-216-839-11	METAL CHIP 33K 5%	1/10W (AEP,UK)
R3	1-216-843-11	METAL CHIP 68K 5%	1/10W (AEP,UK)
R4	1-216-839-11	METAL CHIP 33K 5%	1/10W
R5	1-216-843-11	METAL CHIP 68K 5%	1/10W
R6	1-216-809-11	METAL CHIP 100 5%	1/10W
R7	1-216-809-11	METAL CHIP 100 5%	1/10W
R8	1-216-839-11	METAL CHIP 33K 5%	1/10W (AEP,UK)
R9	1-216-843-11	METAL CHIP 68K 5%	1/10W (AEP,UK)
R9	1-216-864-11	METAL CHIP 0 5%	1/10W (US,CND,E)

Ref. No.	Part No.	Description			Remark
R10	1-216-821-11	METAL CHIP	1K	5%	1/10W
R52	1-216-845-11	METAL CHIP	100K	5%	1/10W (AEP,UK)
R53	1-414-595-11	INDUCTOR, FERRITE BEAD (AEP,UK)			
R54	1-216-801-11	METAL CHIP	22	5%	1/10W (AEP,UK)
R55	1-414-595-11	INDUCTOR, FERRITE BEAD (AEP,UK)			
R56	1-216-845-11	METAL CHIP	100K	5%	1/10W (AEP,UK)
R57	1-216-833-11	METAL CHIP	10K	5%	1/10W (AEP,UK)
R58	1-216-821-11	METAL CHIP	1K	5%	1/10W (AEP,UK)
R59	1-216-864-11	METAL CHIP	0	5%	1/10W (AEP,UK)
R101	1-216-809-11	METAL CHIP	100	5%	1/10W
R102	1-216-809-11	METAL CHIP	100	5%	1/10W
R103	1-216-809-11	METAL CHIP	100	5%	1/10W
R104	1-216-809-11	METAL CHIP	100	5%	1/10W
R105	1-216-809-11	METAL CHIP	100	5%	1/10W
R106	1-216-809-11	METAL CHIP	100	5%	1/10W
R107	1-216-809-11	METAL CHIP	100	5%	1/10W
R108	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R109	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R110	1-249-417-11	CARBON	1K	5%	1/4W
R111	1-249-417-11	CARBON	1K	5%	1/4W
R112	1-216-864-11	METAL CHIP	0	5%	1/10W
R113	1-216-797-11	METAL CHIP	10	5%	1/10W
R301	1-216-809-11	METAL CHIP	100	5%	1/10W
R302	1-216-841-11	METAL CHIP	47K	5%	1/10W
R351	1-216-845-11	METAL CHIP	100K	5%	1/10W
R370	1-216-809-11	METAL CHIP	100	5%	1/10W
R371	1-216-809-11	METAL CHIP	100	5%	1/10W
R400	1-216-833-11	METAL CHIP	10K	5%	1/10W
R401	1-216-833-11	METAL CHIP	10K	5%	1/10W
R402	1-216-833-11	METAL CHIP	10K	5%	1/10W
R403	1-216-833-11	METAL CHIP	10K	5%	1/10W
R404	1-218-881-11	METAL CHIP	27K	0.5%	1/10W
R405	1-216-821-11	METAL CHIP	1K	5%	1/10W
R406	1-216-821-11	METAL CHIP	1K	5%	1/10W
R407	1-216-833-11	METAL CHIP	10K	5%	1/10W
R408	1-216-833-11	METAL CHIP	10K	5%	1/10W
R420	1-216-809-11	METAL CHIP	100	5%	1/10W
R421	1-216-809-11	METAL CHIP	100	5%	1/10W
R422	1-216-841-11	METAL CHIP	47K	5%	1/10W
R423	1-216-864-11	METAL CHIP	0	5%	1/10W
R430	1-216-809-11	METAL CHIP	100	5%	1/10W
R431	1-216-809-11	METAL CHIP	100	5%	1/10W
R432	1-216-841-11	METAL CHIP	47K	5%	1/10W
R433	1-216-864-11	METAL CHIP	0	5%	1/10W
R440	1-216-809-11	METAL CHIP	100	5%	1/10W
R441	1-216-809-11	METAL CHIP	100	5%	1/10W
R442	1-216-841-11	METAL CHIP	47K	5%	1/10W
R443	1-216-864-11	METAL CHIP	0	5%	1/10W
R450	1-216-809-11	METAL CHIP	100	5%	1/10W
R451	1-216-809-11	METAL CHIP	100	5%	1/10W
R452	1-216-841-11	METAL CHIP	47K	5%	1/10W
R453	1-216-864-11	METAL CHIP	0	5%	1/10W
R470	1-216-809-11	METAL CHIP	100	5%	1/10W
R471	1-216-809-11	METAL CHIP	100	5%	1/10W
R472	1-216-841-11	METAL CHIP	47K	5%	1/10W
R480	1-216-809-11	METAL CHIP	100	5%	1/10W
R481	1-216-809-11	METAL CHIP	100	5%	1/10W
R482	1-216-841-11	METAL CHIP	47K	5%	1/10W
R491	1-216-805-11	METAL CHIP	47	5%	1/10W
R492	1-216-864-11	METAL CHIP	0	5%	1/10W
R500	1-216-841-11	METAL CHIP	47K	5%	1/10W
R506	1-216-813-11	METAL CHIP	220	5%	1/10W
R507	1-216-864-11	METAL CHIP	0	5%	1/10W
R508	1-216-845-11	METAL CHIP	100K	5%	1/10W
R509	1-216-845-11	METAL CHIP	100K	5%	1/10W
R510	1-216-845-11	METAL CHIP	100K	5%	1/10W
R511	1-216-845-11	METAL CHIP	100K	5%	1/10W
R512	1-216-845-11	METAL CHIP	100K	5%	1/10W
R513	1-216-845-11	METAL CHIP	100K	5%	1/10W
R514	1-216-841-11	METAL CHIP	47K	5%	1/10W
R516	1-216-845-11	METAL CHIP	100K	5%	1/10W (E)
R517	1-216-845-11	METAL CHIP	100K	5%	1/10W (F5505X)
R518	1-216-845-11	METAL CHIP	100K	5%	1/10W (E)
R520	1-216-845-11	METAL CHIP	100K	5%	1/10W (EXCEPT E)
R521	1-216-845-11	METAL CHIP	100K	5%	1/10W (AEP,UK)
R522	1-216-845-11	METAL CHIP	100K	5%	1/10W (E)
R523	1-216-845-11	METAL CHIP	100K	5%	1/10W
R524	1-216-833-11	METAL CHIP	10K	5%	1/10W
R525	1-216-845-11	METAL CHIP	100K	5%	1/10W
R526	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R527	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R528	1-216-845-11	METAL CHIP	100K	5%	1/10W
R529	1-216-845-11	METAL CHIP	100K	5%	1/10W
R530	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R531	1-216-841-11	METAL CHIP	47K	5%	1/10W
R532	1-216-845-11	METAL CHIP	100K	5%	1/10W
R533	1-216-845-11	METAL CHIP	100K	5%	1/10W
R601	1-216-849-11	METAL CHIP	220K	5%	1/10W
R602	1-216-849-11	METAL CHIP	220K	5%	1/10W
R603	1-216-821-11	METAL CHIP	1K	5%	1/10W
R604	1-216-835-11	METAL CHIP	15K	5%	1/10W
R606	1-216-821-11	METAL CHIP	1K	5%	1/10W
R607	1-216-821-11	METAL CHIP	1K	5%	1/10W
R608	1-216-841-11	METAL CHIP	47K	5%	1/10W
R610	1-216-809-11	METAL CHIP	100	5%	1/10W
R611	1-216-809-11	METAL CHIP	100	5%	1/10W
R701	1-216-821-11	METAL CHIP	1K	5%	1/10W
R702	1-216-841-11	METAL CHIP	47K	5%	1/10W
R703	1-216-833-11	METAL CHIP	10K	5%	1/10W
R704	1-216-833-11	METAL CHIP	10K	5%	1/10W
R705	1-249-425-11	CARBON	4.7K	5%	1/4W
R706	1-216-841-11	METAL CHIP	47K	5%	1/10W
R707	1-216-841-11	METAL CHIP	47K	5%	1/10W
R708	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R709	1-216-821-11	METAL CHIP	1K	5%	1/10W

MAIN **SENSOR** **SERVO**

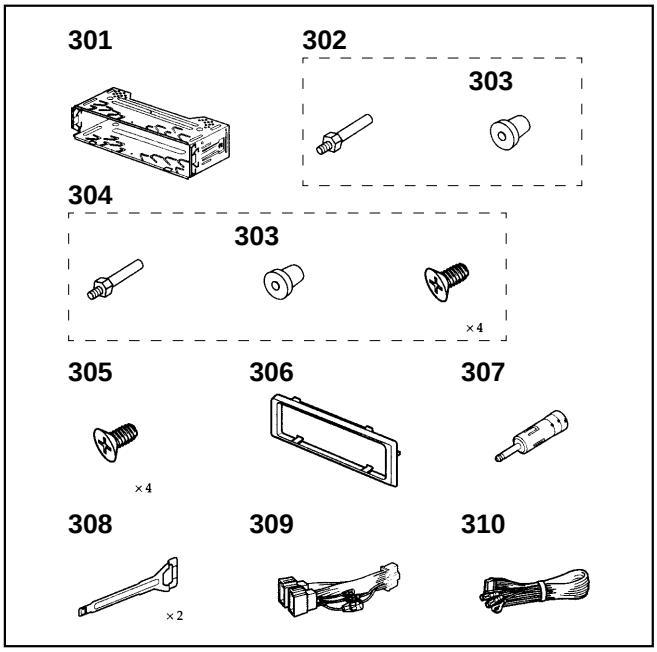
Ref. No.	Part No.	Description	Remark
		< SWITCH >	
S102	1-786-458-11	SWITCH, PUSH (1 KEY) (NOSE DET)	
S103	1-692-431-21	SWITCH, TACTILE (RESET)	
S501	1-571-478-11	SWITCH, SLIDE (FREQUENCY SELECT) (E)	
		< THERMISTOR (POSITIVE) >	
TH600	1-803-350-21	THERMISTOR, POSITIVE	
		< TUNER >	
TU1	A-3220-959-A	TUNER UNIT (TUX-032//Q)	
		< VIBRATOR >	
X50	1-813-173-11	VIBRATOR, CRYSTAL (8.664MHz) (AEP,UK)	
X500	1-813-160-11	VIBRATOR, CERAMIC (27.648MHz)	
X501	1-813-202-11	VIBRATOR, CRYSTAL (32.768kHz)	
**********			
		SENSOR BOARD	
		**********	
		< SWITCH >	
SW2	1-529-566-61	SWITCH, PUSH (1 KEY) (SELF)	
SW3	1-529-566-61	SWITCH, PUSH (1 KEY) (DISC IN)	
**********			
	A-3283-357-A	SERVO BOARD, COMPLETE	
		**********	
		< CAPACITOR >	
C1	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C2	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C3	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C4	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C5	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C6	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C7	1-162-962-11	CERAMIC CHIP 470PF 10%	50V
C8	1-162-962-11	CERAMIC CHIP 470PF 10%	50V
C10	1-104-609-11	ELECT CHIP 100uF 20%	4V
C11	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C13	1-162-965-11	CERAMIC CHIP 0.0015uF 10%	50V
C14	1-162-965-11	CERAMIC CHIP 0.0015uF 10%	50V
C16	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C18	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V
C19	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V
C21	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C22	1-162-962-11	CERAMIC CHIP 470PF 10%	50V
C23	1-162-967-11	CERAMIC CHIP 0.0033uF 10%	50V
C24	1-162-962-11	CERAMIC CHIP 470PF 10%	50V
C25	1-162-967-11	CERAMIC CHIP 0.0033uF 10%	50V
C26	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C27	1-126-208-21	ELECT CHIP 47uF 20%	4V
C28	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C29	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C30	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C32	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C33	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C34	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C35	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C36	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C37	1-164-677-11	CERAMIC CHIP 0.033uF 10%	16V
C38	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C39	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C40	1-162-969-11	CERAMIC CHIP 0.0068uF 10%	25V
C41	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C42	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C43	1-125-837-11	CERAMIC CHIP 1uF 10%	6.3V
C44	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C45	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C46	1-162-965-11	CERAMIC CHIP 0.0015uF 10%	50V
C47	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C48	1-104-609-11	ELECT CHIP 100uF 20%	4V
C49	1-125-837-11	CERAMIC CHIP 1uF 10%	6.3V
C50	1-125-837-11	CERAMIC CHIP 1uF 10%	6.3V
C51	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C52	1-100-381-11	ELECT CHIP 10uF 20%	16V
C53	1-100-381-11	ELECT CHIP 10uF 20%	16V
C54	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C55	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C56	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C57	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C58	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C59	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C60	1-100-381-11	ELECT CHIP 10uF 20%	16V
C63	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C64	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C65	1-126-208-21	ELECT CHIP 47uF 20%	4V
C66	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C67	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C74	1-126-208-21	ELECT CHIP 47uF 20%	4V
C75	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C77	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C79	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C81	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C83	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C85	1-125-837-11	CERAMIC CHIP 1uF 10%	6.3V
C86	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C91	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C92	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C109	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C110	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C115	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
		< CONNECTOR >	
CN1	1-794-153-21	CONNECTOR, FPC (ZIF) 16P	
CN2	1-817-275-21	CONNECTOR, BOARD TO BOARD 28P	
		< JUMPER RESISTOR >	
FB1	1-216-864-11	METAL CHIP 0 5%	1/10W
FB2	1-216-864-11	METAL CHIP 0 5%	1/10W
FB5	1-216-864-11	METAL CHIP 0 5%	1/10W
		< IC >	
IC1	6-705-366-01	IC LA6560-TE-L-E	
IC3	8-752-425-12	IC CXD3059AR	
IC4	6-804-028-01	IC MB90487PFV-G-105-BNDE1	
IC7	6-705-364-01	IC R1114N151D-TR-FA	

Ref. No.	Part No.	Description			Remark
IC8	6-705-365-01	IC TC94A34FG-002			
		< TRANSISTOR >			
Q1	8-729-904-87	TRANSISTOR 2SB1197K-R			
Q2	8-729-928-90	TRANSISTOR DTC114EE			
Q3	8-729-904-87	TRANSISTOR 2SB1197K-R			
Q5	8-729-904-87	TRANSISTOR 2SB1197K-R			
Q6	8-729-928-90	TRANSISTOR DTC114EE			
		< RESISTOR >			
R1	1-218-941-81	RES-CHIP	100	5%	1/16W
R2	1-218-971-11	RES-CHIP	33K	5%	1/16W
R3	1-218-971-11	RES-CHIP	33K	5%	1/16W
R4	1-218-965-11	RES-CHIP	10K	5%	1/16W
R5	1-218-965-11	RES-CHIP	10K	5%	1/16W
R6	1-218-965-11	RES-CHIP	10K	5%	1/16W
R7	1-208-635-11	RES-CHIP	10	5%	1/16W
R8	1-218-971-11	RES-CHIP	33K	5%	1/16W
R9	1-218-971-11	RES-CHIP	33K	5%	1/16W
R10	1-218-965-11	RES-CHIP	10K	5%	1/16W
R11	1-218-965-11	RES-CHIP	10K	5%	1/16W
R12	1-208-635-11	RES-CHIP	10	5%	1/16W
R13	1-218-965-11	RES-CHIP	10K	5%	1/16W
R14	1-218-990-11	SHORT CHIP	0		
R15	1-218-990-11	SHORT CHIP	0		
R16	1-218-990-11	SHORT CHIP	0		
R17	1-218-965-11	RES-CHIP	10K	5%	1/16W
R18	1-218-965-11	RES-CHIP	10K	5%	1/16W
R19	1-218-969-11	RES-CHIP	22K	5%	1/16W
R20	1-218-969-11	RES-CHIP	22K	5%	1/16W
R21	1-218-990-11	SHORT CHIP	0		
R22	1-218-967-11	RES-CHIP	15K	5%	1/16W
R23	1-218-967-11	RES-CHIP	15K	5%	1/16W
R24	1-218-953-11	RES-CHIP	1K	5%	1/16W
R25	1-218-953-11	RES-CHIP	1K	5%	1/16W
R26	1-218-981-11	RES-CHIP	220K	5%	1/16W
R27	1-218-965-11	RES-CHIP	10K	5%	1/16W
R28	1-218-990-11	SHORT CHIP	0		
R29	1-218-977-11	RES-CHIP	100K	5%	1/16W
R37	1-218-947-11	RES-CHIP	330	5%	1/16W
R38	1-218-967-11	RES-CHIP	15K	5%	1/16W
R39	1-218-941-81	RES-CHIP	100	5%	1/16W
R40	1-218-990-11	SHORT CHIP	0		
R41	1-218-985-11	RES-CHIP	470K	5%	1/16W
R42	1-218-965-11	RES-CHIP	10K	5%	1/16W
R43	1-218-977-11	RES-CHIP	100K	5%	1/16W
R44	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R45	1-218-971-11	RES-CHIP	33K	5%	1/16W
R46	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R47	1-218-977-11	RES-CHIP	100K	5%	1/16W
R48	1-218-941-81	RES-CHIP	100	5%	1/16W
R49	1-218-953-11	RES-CHIP	1K	5%	1/16W
R50	1-218-941-81	RES-CHIP	100	5%	1/16W
R52	1-218-941-81	RES-CHIP	100	5%	1/16W
R53	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R54	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R55	1-218-953-11	RES-CHIP	1K	5%	1/16W
R56	1-218-973-11	RES-CHIP	47K	5%	1/16W
R57	1-218-941-81	RES-CHIP	100	5%	1/16W
R59	1-218-941-81	RES-CHIP	100	5%	1/16W
R60	1-218-990-11	SHORT CHIP	0		
R61	1-218-985-11	RES-CHIP	470K	5%	1/16W
R62	1-218-965-11	RES-CHIP	10K	5%	1/16W
R64	1-218-941-81	RES-CHIP	100	5%	1/16W
R65	1-218-941-81	RES-CHIP	100	5%	1/16W
R67	1-218-941-81	RES-CHIP	100	5%	1/16W
R68	1-218-990-11	SHORT CHIP	0		
R69	1-218-973-11	RES-CHIP	47K	5%	1/16W
R70	1-218-945-11	RES-CHIP	220	5%	1/16W
R71	1-218-941-81	RES-CHIP	100	5%	1/16W
R72	1-218-990-11	SHORT CHIP	0		
R73	1-218-941-81	RES-CHIP	100	5%	1/16W
R74	1-218-941-81	RES-CHIP	100	5%	1/16W
R76	1-218-941-81	RES-CHIP	100	5%	1/16W
R77	1-218-990-11	SHORT CHIP	0		
R78	1-218-941-81	RES-CHIP	100	5%	1/16W
R79	1-218-941-81	RES-CHIP	100	5%	1/16W
R80	1-218-977-11	RES-CHIP	100K	5%	1/16W
R81	1-218-941-81	RES-CHIP	100	5%	1/16W
R85	1-218-973-11	RES-CHIP	47K	5%	1/16W
R86	1-218-973-11	RES-CHIP	47K	5%	1/16W
R87	1-218-973-11	RES-CHIP	47K	5%	1/16W
R91	1-220-200-81	RES-CHIP	30K	5%	1/16W
R92	1-218-971-11	RES-CHIP	33K	5%	1/16W
R96	1-218-990-11	SHORT CHIP	0		
R97	1-218-941-81	RES-CHIP	100	5%	1/16W
R98	1-218-941-81	RES-CHIP	100	5%	1/16W
R99	1-218-965-11	RES-CHIP	10K	5%	1/16W
R101	1-218-969-11	RES-CHIP	22K	5%	1/16W
R102	1-218-990-11	SHORT CHIP	0		
R106	1-218-969-11	RES-CHIP	22K	5%	1/16W
R107	1-218-965-11	RES-CHIP	10K	5%	1/16W
R108	1-218-941-81	RES-CHIP	100	5%	1/16W
R109	1-218-965-11	RES-CHIP	10K	5%	1/16W
R110	1-218-945-11	RES-CHIP	220	5%	1/16W
R111	1-218-990-11	SHORT CHIP	0		
R114	1-218-941-81	RES-CHIP	100	5%	1/16W
R115	1-218-941-81	RES-CHIP	100	5%	1/16W
R116	1-218-941-81	RES-CHIP	100	5%	1/16W
R117	1-218-990-11	SHORT CHIP	0		
R119	1-218-941-81	RES-CHIP	100	5%	1/16W
R122	1-218-965-11	RES-CHIP	10K	5%	1/16W
R123	1-218-990-11	SHORT CHIP	0		
R124	1-216-864-11	METAL CHIP	0	5%	1/10W
R126	1-218-965-11	RES-CHIP	10K	5%	1/16W
R127	1-218-965-11	RES-CHIP	10K	5%	1/16W
R128	1-218-965-11	RES-CHIP	10K	5%	1/16W
R129	1-218-965-11	RES-CHIP	10K	5%	1/16W
R133	1-216-864-11	METAL CHIP	0	5%	1/10W
R136	1-218-977-11	RES-CHIP	100K	5%	1/16W
R139	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R140	1-218-941-81	RES-CHIP	100	5%	1/16W
R141	1-218-941-81	RES-CHIP	100	5%	1/16W
R142	1-218-941-81	RES-CHIP	100	5%	1/16W
R143	1-218-941-81	RES-CHIP	100	5%	1/16W
R144	1-218-965-11	RES-CHIP	10K	5%	1/16W

SERVO **SUB**

Ref. No.	Part No.	Description			Remark
R145	1-218-977-11	RES-CHIP	100K	5%	1/16W
R146	1-218-941-81	RES-CHIP	100	5%	1/16W
R147	1-218-941-81	RES-CHIP	100	5%	1/16W
R148	1-218-941-81	RES-CHIP	100	5%	1/16W
		< SWITCH >			
SW1	1-529-565-61	SWITCH, PUSH (1 KEY) (DOWN)			
		< VIBRATOR >			
X1	1-795-561-21	VIBRATOR, CERAMIC (16.9344MHz)			
X2	1-795-822-21	VIBRATOR, CERAMIC (18.43MHz)			
**********					
		SUB BOARD			
		**********			
	1-792-195-11	CABLE, FLEXIBLE FLAT (14 CORE) (CN802)			
		< CONNECTOR >			
CN801	1-817-159-11	SOCKET, CONNECTOR 14P			
		< DIODE >			
D801	6-500-025-01	DIODE MM3Z6V8ST1			
LED801	8-719-082-38	LED CL-270SR-C-TS (DOOR IND)			
LED802	6-500-450-01	LED CL-195SR-CD-T (⏏)			
		< RESISTOR >			
R801	1-216-817-11	METAL CHIP	470	5%	1/10W
		< SWITCH >			
S801	1-771-884-31	SWITCH, TACTILE (⏏)			
**********					
		MISCELLANEOUS			
		**********			
12	1-776-207-82	CORD (WITH CONNECTOR) (POWER) (US,CND,E)			
12	1-776-527-61	CORD (WITH CONNECTOR) (ISO) (POWER) (AEP,UK)			
⚠153	8-820-207-02	OPTICAL PICK-UP KSS1000E/K1RP			
154	A-3372-448-A	CHASSIS (OP) SUB ASSY (including M901)			
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A			
M902	A-3372-447-A	MOTOR ASSY, SL (SLED)			
M903	A-3372-443-A	MOTOR ASSY, LE (LOADING)			
SW4	1-571-099-11	SWITCH (1 KEY) (LIMIT)			
**********					

Ref. No.	Part No.	Description	Remark
		ACCESSORIES	
		**********	
	1-476-526-34	REMOTE COMMANDER (RM-X115)	
	3-230-047-01	LID, BATTERY CASE (for RM-X115)	
	3-261-932-11	MANUAL, INSTRUCTION (ENGLISH,GERMAN, FRENCH,ITALIAN,DUTCH) (F5500:AEP,UK)	
	3-261-933-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, GERMAN,FRENCH,ITALIAN,DUTCH) (F5500:AEP,UK)	
	3-261-943-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH) (F5505X)	
	3-261-944-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH) (F5505X)	
	3-261-957-11	MANUAL, INSTRUCTION (ENGLISH,SPANISH, TRADITIONAL CHINESE) (F5500:E)	
	3-261-958-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH,TRADITIONAL CHINESE) (F5500:E)	
	7-685-234-19	SCREW +KTP 2.6X8 TYPE2 NON-SLIT	
	X-3383-264-2	CASE ASSY (for FRONT PANEL)	
**********			
		PARTS FOR INSTALLATION AND CONNECTIONS	
		**********	
301	X-3382-647-1	FRAME ASSY, FITTING	
302	X-3382-926-1	SCREW ASSY (BS), FITTING (AEP,UK)	
303	3-349-410-11	BUSHING (F5500)	
304	X-3381-154-1	SCREW ASSY (BS4), FITTING (E)	
305	3-934-325-01	SCREW, +K (5X8) TAPPING (F5505X)	
306	3-260-236-01	COLLAR	
307	1-465-459-21	ADAPTOR, ANTENNA (AEP,UK)	
308	3-246-471-01	KEY (FRAME)	
309	1-776-527-61	CORD (WITH CONNECTOR) (ISO) (POWER) (AEP,UK)	
310	1-776-207-82	CORD (WITH CONNECTOR) (POWER) (US,CND,E)	



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.